EXTINGUISHMENT OF SOLID PROPELLANTS BY RAPID DEPRESSURIZATION (A SUPPLEMENT TO AMS REPORT NO. 880)*

Aerospace and Mechanical Sciences Report No. 880-S

by

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Transmitted by:

Martin Summerfield

Principal Investigator

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As described in Appendix III-D, page 189 of AMS Report No. 880.

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SECTION I

EXPERIMENTAL PRESSURE VERSUS TIME DATA

A. Introduction

The following experimental pressure versus time data are presented in both tabular and plotted form*. Also included in the listings are the coefficients of the least squares fit polynomials used in the theoretical tests and in the plots presented herein.

The tabulated data are in the dimensions of psig versus seconds, as are the data plots. The polynomial used for the least squares fit was of the form:

$$\ln(P) = a_0 + a_1 \mathbf{1} + a_2 \mathbf{1}^2 + \dots + a_n \mathbf{1}^n$$
where $P = p/p_{initial}$

$$\mathbf{1} = t/(c \mathbf{1}_p/r_{ref}^2)$$
and $n = \begin{cases} 5 \text{ for 10 input points.} \\ 6 \text{ for 12 input points.} \\ 7 \text{ for 14 input points.} \end{cases}$

Many of the pressure traces do not go all the way to 0.0 psig because the final trailoff in the test chamber was relatively slow and was occasionally deleted from the input to the theoretical prediction program.

The pressure versus time data for Batches No. 958 and No. 960 were not used in the theoretical prediction and are available only in the form of Visicorder graph records produced at the time of the experiments.

^{*}The plots were made using a Calcomp 560 automatic plotter.

()=-()•3•25+()669 \ 09

11 15

352.4

300.7

756.2

233.6

\$\$ 333 Y

9.9 34

0.0042

0.0015

-4=-0.1558840230-03

f.3(3)

-0.3251

-0.9:47

-1.1354

-1.3747

111.)

53.)

33.0

11.3

573.7

F - 7.7

452.

301,4

-2. -234

-3.355

-5.4723

-7.1441

- 1.317

-1.5227

-1.7 10

3.0111

3.3151

0.0301

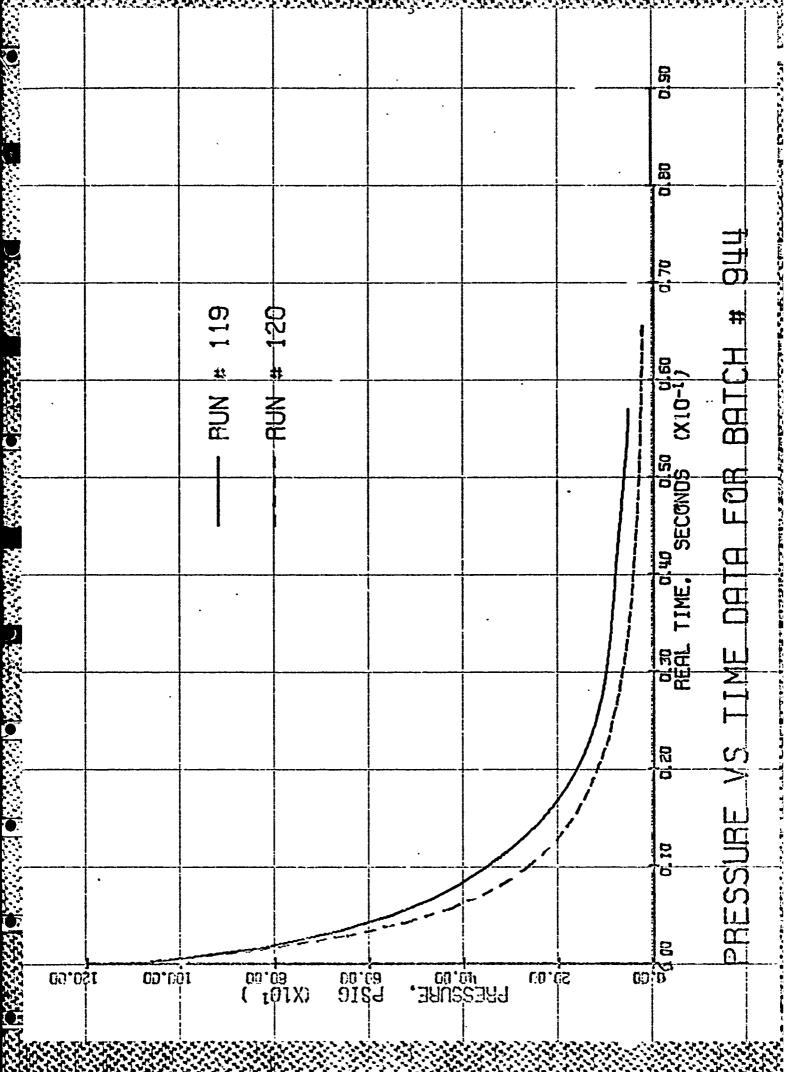
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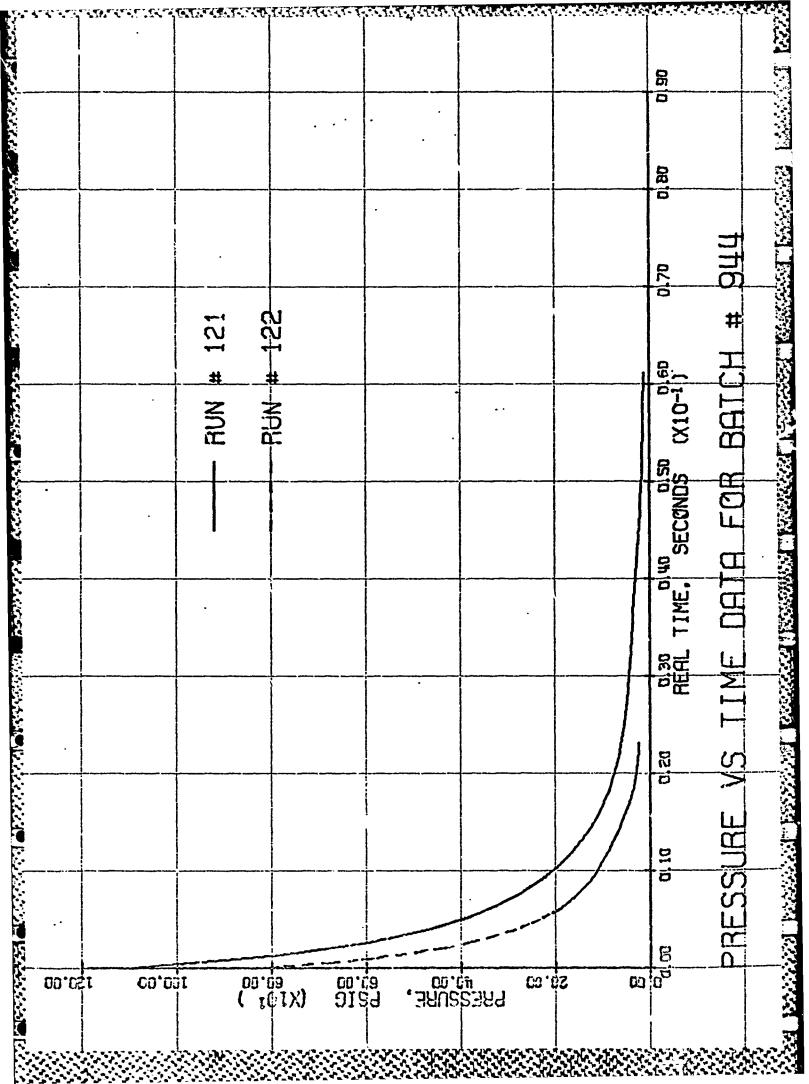
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0.0011

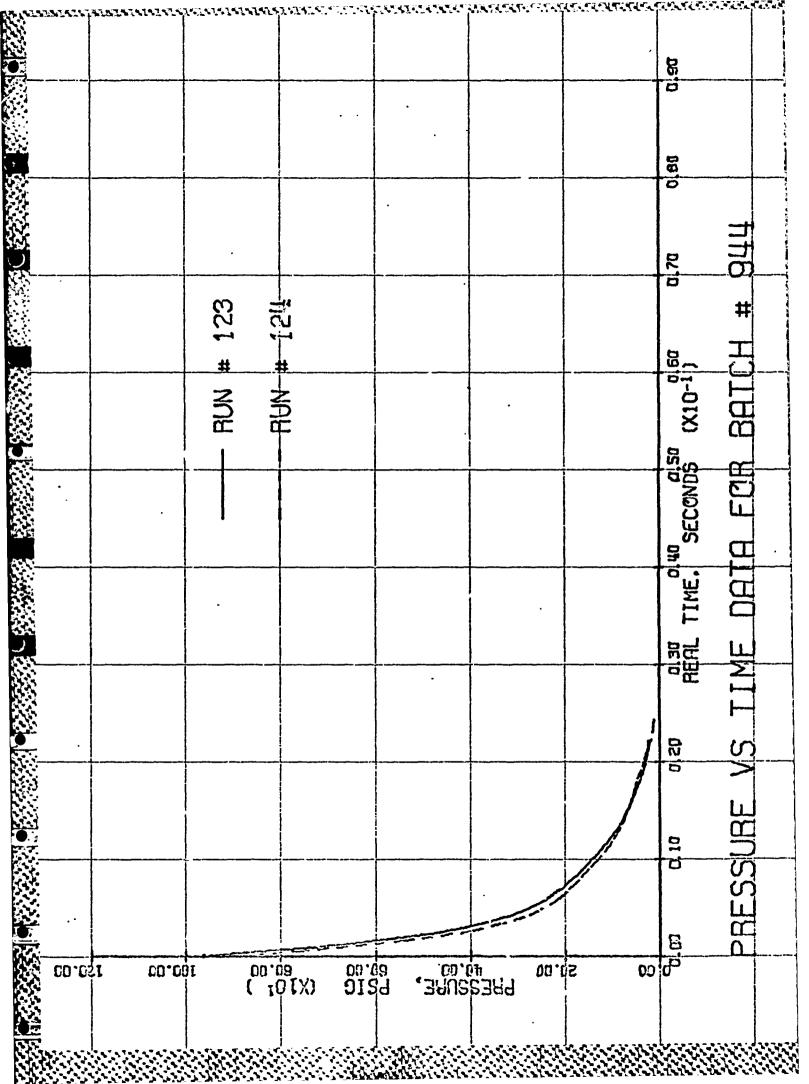
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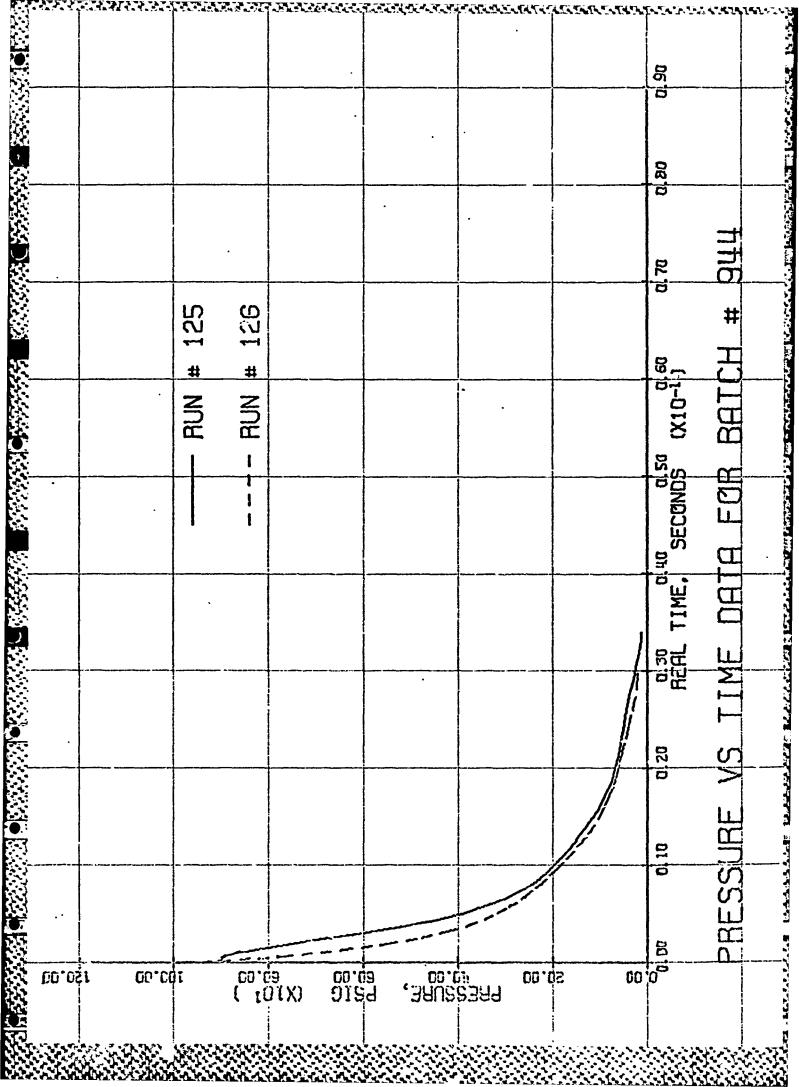
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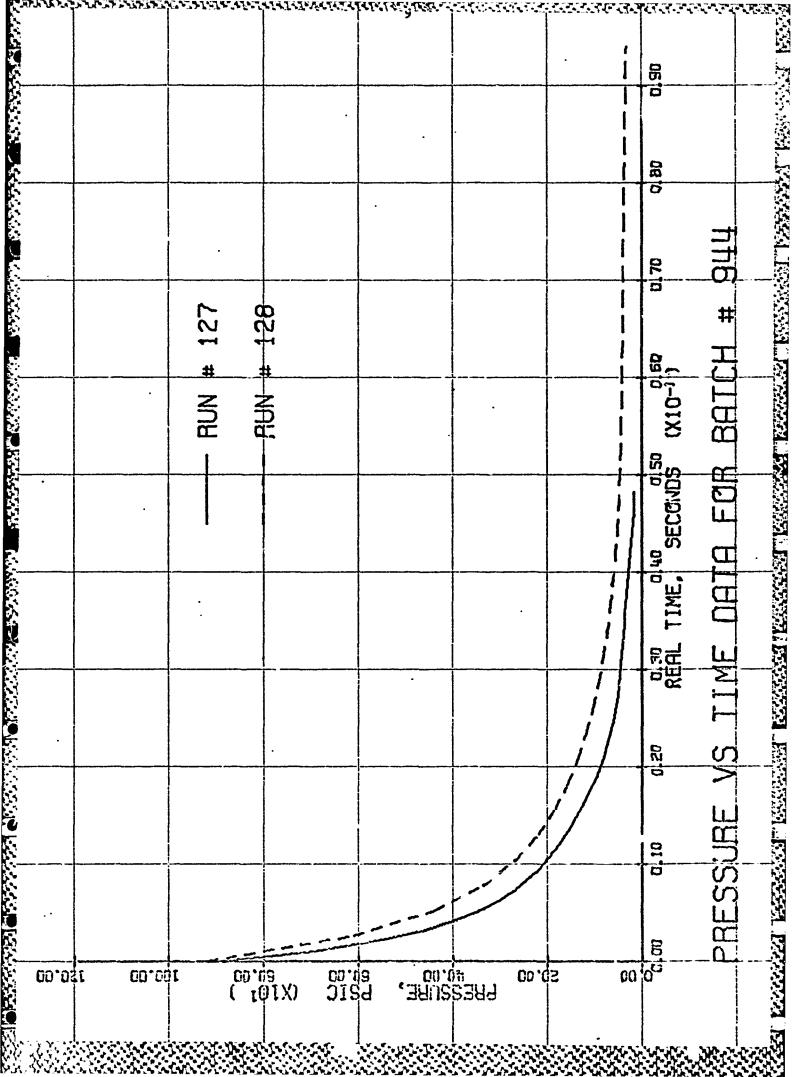


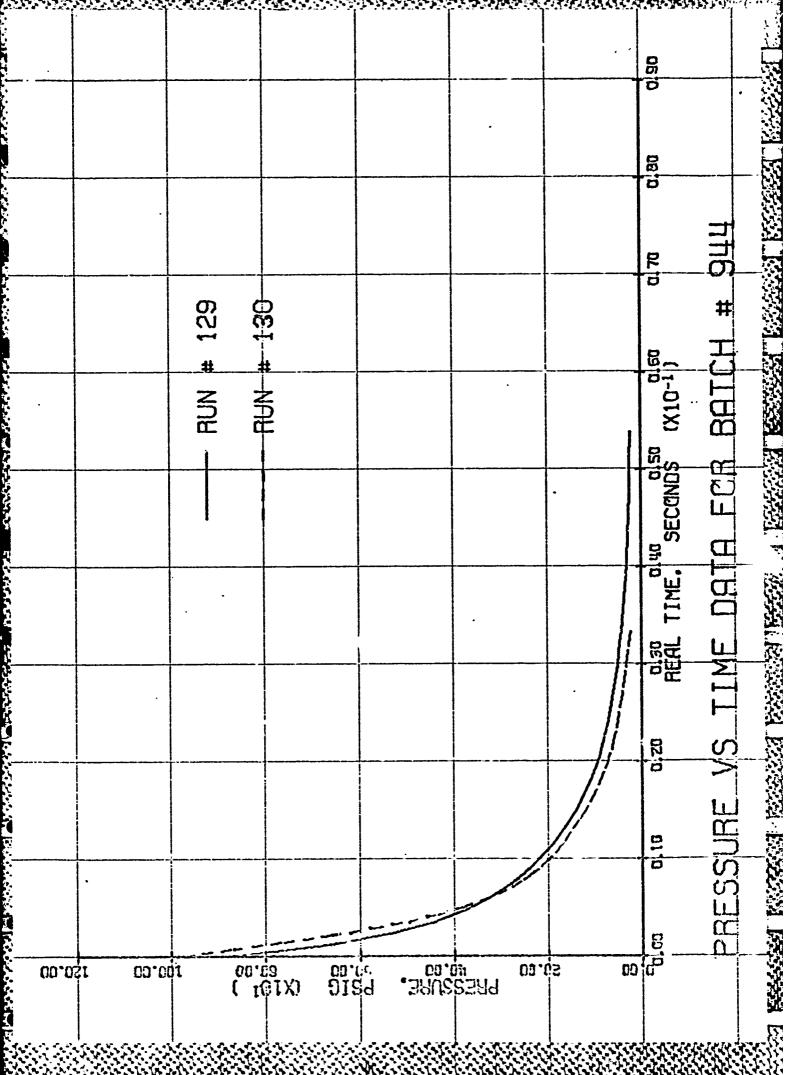
```
DATA FRUN RUN # 123
                                           T=(TIME#RPEF##2)/ALPHA
                               LM(P)=== +3#T1 +6#T##2 +0#T##3 +E#T##4
   TIKE
            ·
                    LY(P)
                                             +F*T##5 +S#T##6 +H#T##7
 0.0
          972.0
                   2.3
                             A=-0.6726131379-92
                                                  E=-0.338033763D 00
 0.0010
                 -0.3233
          7:0.0
                            5=-0.9233332650 00
                                                  F= 0.7673241779-01
 0.0023
          570.0
                 -0.5547
                            C=-0.495101631D 00
                                                  G = -0.8573347850 - 02
 0.0030
          405.0
                 -0.8755
                            0= 0.7190786529 00
                                                  H= 0.3783953950-03
 0.0044
          300.0
                 -1.1755
 0.0073
          200.0
                 -1.5810
                                    TIVE
                                                    LN(P)
 0.0080
          133.3
                 -1.5364
                                  0.0157
                                            50.0
                                                  -2.7550
 0.0093
          140.0
                 -1.7377
                                  0.0130
                                            42.0
                                                  -3.1417
 0.0119
          120.0
                 -2.0919
                                 0.0198
                                            30.0
                                                  -- 3.4782
 0.0130
           32.0
                 -2.4726
                                  0.0230
                                            25.0
                                                  -3.6505
DATA FRUM RIM # 124
                                           T=(TIME#RPEF##2)/ALPHA
                               LN(P)=A +3+[ +C+T++2 +0+T++3 +F+T++4
   TIME
            ဒု
                   LM(P)
                                             +F#T##5 +G#T##6 +H#T##7
 0.0
          405.0
                  0.0
                            A=-0.1099035770-01
                                                  E = -0.4129228020 00
 0.0003
                 -0.3387
          645.0
                            B=-0.9791033739 00
                                                  F= 0.9456037810-01
 0.0059
          225.0
                 -1.3918
                            (=-0.5545435100 00
                                                  6=-0.1045394220-01
 9.0109
          113.0
                 -2.0505
                            D= 0.8571057650 00
                                                  H=. 0.4472570259-03
 0.0159
           50.0
                 -2.7136
 0.0209
           27.0
                 -3.5121
                                    TIME
                                                    LN(P)
 9.0259
           25.0
                 -3.5891
                                  0.0023
                                          334.8
                                                  -0.3552
 0.0009
         577.0
                 -0.2903
                                  0.0034
                                          327.3
                                                  -1.0155
 0.0016
         548 . ?
                 -0.5004
                                  0.0041
                                          277.9
                                                  -1.1306
 0.0022
         453.9
                 -0.5791
                                  0.0053
                                          220.9
                                                  -1.4102
DATA FROM RUN # 125
                                          T=(TIME#RREF##2)/ALPHA
                              LM(P)=A +3+T +C+T++2 +0+T++3 +E+T++4
   TIME
            .
                   LV(P)
                                             +F*T**5 +G*T**6 +H*T**7
 0.)
         330.0
                  J.)
                            A= 0.2663540470-01 .E=-0.2903176800 00
         335.0
 0.0017
                 -0.0525
                            B= 0.1163671440 00 F= 0.2972212720-01
 0.0062
                            C=-0.1152436740 01
         350.0
                 -0.3220
                                                  G=-0.2202550200-02
 0.0103
         142.0
                 -1.5224
                                                  H= 0.6424557050-04
                            D= 0.7003519540 00
 0.3153
         105.0
                 -2.1260
 0.0203
          57.7
                 -2.5752
                                    1145
                                                    L'I(P)
 0.0253
          45.
                 -2.9733
                                 0.0029
                                          594.4
                                                  -0.3924
 0.0303
          23.)
                 -3.5444
                                  0.0036
                                          505.4
                                                  -0.5525
 0.0353
          15.0
                 -4.0719
                                 0.0042
                                          440.0
                                                  -0.6931
 3.0023
         777.5
                 -0.1929
                                 0.0043
                                          332.3
                                                  -0.9322
0414 F137 - Jt 9 120
                                          T=(T1/9#444642)/21044
                              LN(P)=A +3%T +C#T##2 +0#T##3 +F#T##4
   Ilas
                   L ((P)
                                            4F41445 +347446 +447447
9.9
         913.7
                  2.7
                            7= 0.2218095930-01
                                                - E=-0.4529351220-01
0.0010
         735.5
                 -0.2540
                            R=-0.1147(05200 01
                                                  F= 0.1204144940-01
0.006)
         243.3
                 -1.1592
                            C= 0.3045012590 co
                                                 3=-0.1273172779-02
0.0110
                 -1.7470
         140:0
                            D= 0.2337102470-01
                                                  H= 0.4593132750-04
0.0160
          93.0
                 -7.3724
 0.0210
          72.9
                 -2.1147
                                    TITT
                                            þ
                                                    1. 7(2)
0.0263
          37.7
                 -3.4210
                                 0.0019
                                          543.1
                                                  -0.5743
0.0310
          25.3
                 -3.4033
                                 0.0025
                                          471.?
                                                  -0.0505
0.0006
         737.3
                 - 1.1523
                                 9.0031
                                          420.7
                                                  -0.7500
0.3.12
         450.2
                                          3 +4 . ?
                                                  -0.9:10/
```





```
DATA FROM RUN # 127
                                        T=(TIME#RPEF##2)/ALPHA
                           * LN(P)=A +8*T +C*T**2 +9*T**3 +E*T**4
           2
   T1 45
                  LN(P)
                                          +F*T**5 +G*T**6 +H*T**7
         085.0
 0.0
                  0.0
                           0.0013
         640.0
                 -3.3241
                          8 = -9.8618115050 70 F= 0.8596909700 = 03
 0.0063
         305.0
                -1.0653
                          C= 0.1795598370 00 G=-0.5233747890-04
 0.0113
         135.0
                -1.5552
                          0 = -0.1382558350 - 01
                                             H= 0.1545012040-05
 0.0153
         120.3
                -1.9931
 0.0213
          73.0
                -2.4283
                                  TIME
                                          0
                                                 LN(P)
 0.0253
          55.0
                -2.7783
                                0.0513
                                         20.0
                                              -3.7399
 0.0313
                -3.0967
          40.0
                                0.0007
                                        751.9
                                              -0.1498
 0.0343
          35.0
                -3.2302
                                0.0014
                                        554.1
                                               -0.3023
 0.0413
          25.0
                -2.5357
                                0.0026
                                        500.2
                                              -0.5705
DATA FRO 1 RUN 4 128
                                       T=(TIME*PREF##2)/ALPHA
                             L'1(?)=A +6*T +C*T**2 +D*T**3 +F*T**4
   TIME
                  L'I(P)
                                          +F*T**5 +G*T**6 +H*T**7
 0.0
         925.0
                 0.0
                          A = -0.7303141200 - 02 E = 0.7910958470 - 03
         570.0
 0.0030
                -0.4842
                          8=-0.4038202300 00 F=-0.3098072050-04
 0.0761
         473.0
                -0.3383
                          C= 0.9086556000-01 G= 0.511678545D-06
 0.0090
         325.)
                -1.0460
                          D=-0.1098509047-01 H=-0.476879255D-08
 0.0130
         222.0
                -1.4271
 9.0160
         153.1
                -1.7672
                                  TIME
                                          D
                                                 LN(P)
 0.0230
         120.0
                -2.0423
                               0.0539
                                         40.0
                                              -3.1409
 0.0280
          32.0
                -2.3030
                                0.0330
                                         35.0
                                              -3.2744
 0.0380
          63.7
                -2.5307
                                0.1030
                                         32.0
                                              -3.3641
 0.0480
          43.0
                -2.9536
                               0.1230
                                         30.0
                                              -3.4286
DATA FROM RUY # 129
                                       T=(TIME*REFF##2)/ALPHA
                            LN(P)=A +3#T +C#T##2 +D#T##3 +F#T##4
   TIME
           C
                  F.1(b)
                                          +F*T≈+5 +G*T*+6 +H*T**7
 0.0
         330.0
                 0.0
                          0.0011
         713.3
                -9.2147
                          6 = -0.9063033547 00 F = -0.1017764457 - 02
 0.0051
         330.0
                -0.9303
                          C= 0.2981340740 00 G= 0.4357249200-04
 0.0111
         195.0
                -1.5059
                          D=-0.3015370530-01
                                              4=-0.7471685390-05
 0.0151
         125.0
                -1.9516
 0.0211
          85.)
                -2.3373
                                 1145
                                          P
                                                 FN(5)
 0.0261
          35.1
                -2.5955
                               0.0551
                                        20.0
                                              -3.7342
 0.0311
          45.C
                -2.9733
                               0.0007
                                       735.9
                                              -0.1739
 0.7361
          33.0
                -3.1423
                               0.0013
                                       529.7
                                              -0.3347
 0.0451
          25.1
                -3.5010
                               0.0026
                                       493.1
                                              -0.5792
DATA FROM P.D. # 130
                                       T=(T[45#2k50##2}/4L9HA
                            Ly(P)=4 +3#T +C#T##2 +0#T##3 +8#T##4
   TIME
           )
                  F3(5)
                                          +F#T##5 +G#T##5 +H#T##7
 2.0
         935.0
                 J. J
                          0.0000
        905.0
                -7.3325
                          #=-0.4915955430 00 F= 0.1066814770-01
 0.0013
        700.0
                          C=-0.3581723330 00 G=-0.7484277470-03
                -0.2395
         500.0
 0.0033
                -0.5259
                          D= 0.2603247610 00
                                             H= 0.2055547270-04
 0.3047
         395.7
                -0.1517
 0.0005
         333.3
                -1.1340
                                 1100
                                         • •
                                                [412]
 0.1000
         240.0
                -1.3593
                               0.0197
                                        75.€
                                              -2.5231
 0.0007
         205.0
                -1.5175
                                        47. ^
                               010247
                                              -2.9904
 0.0125
         15).1
                -1.3229
                                              -3.3440
                               0.0237
                                        33.0
 3.3147
         120.)
                -2.0531
                               0.0347
                                        20.0
                                              -3.3443
```





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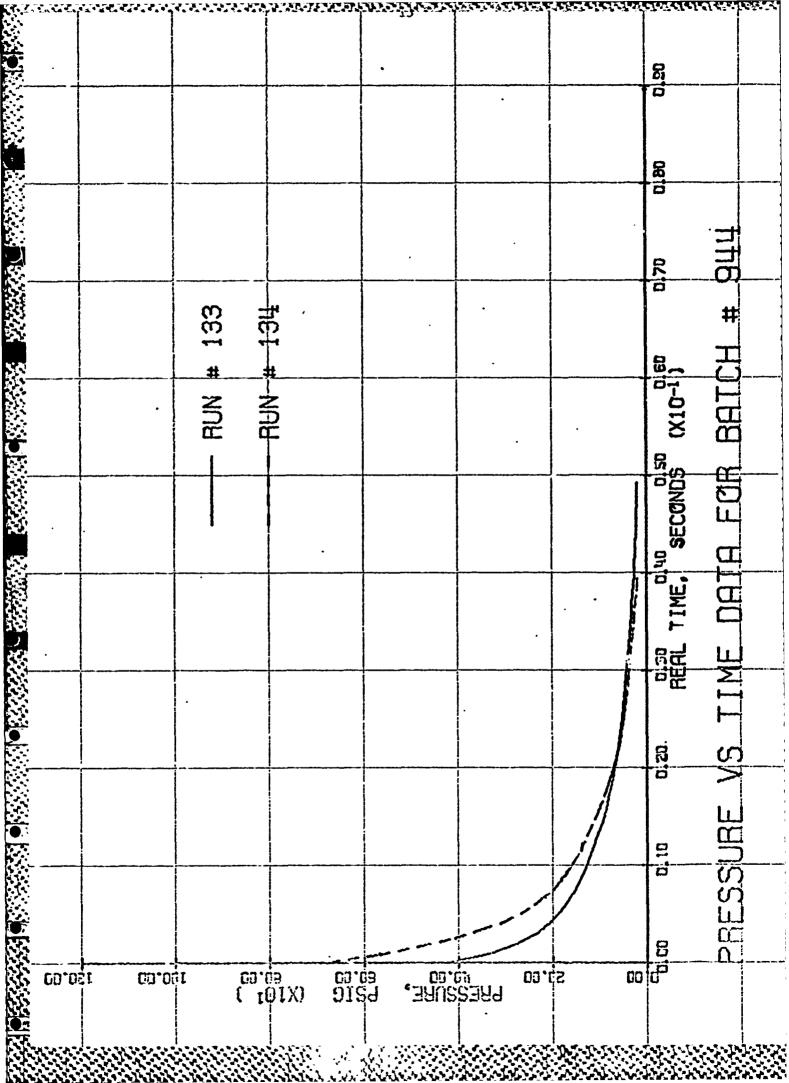
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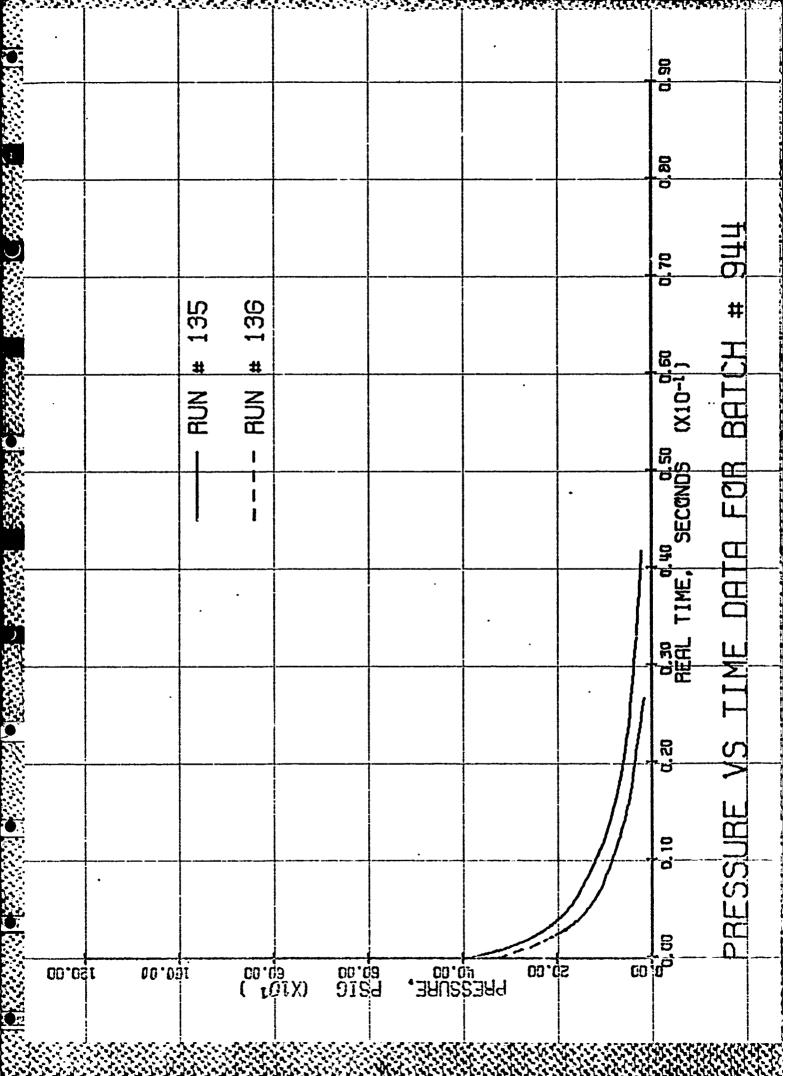
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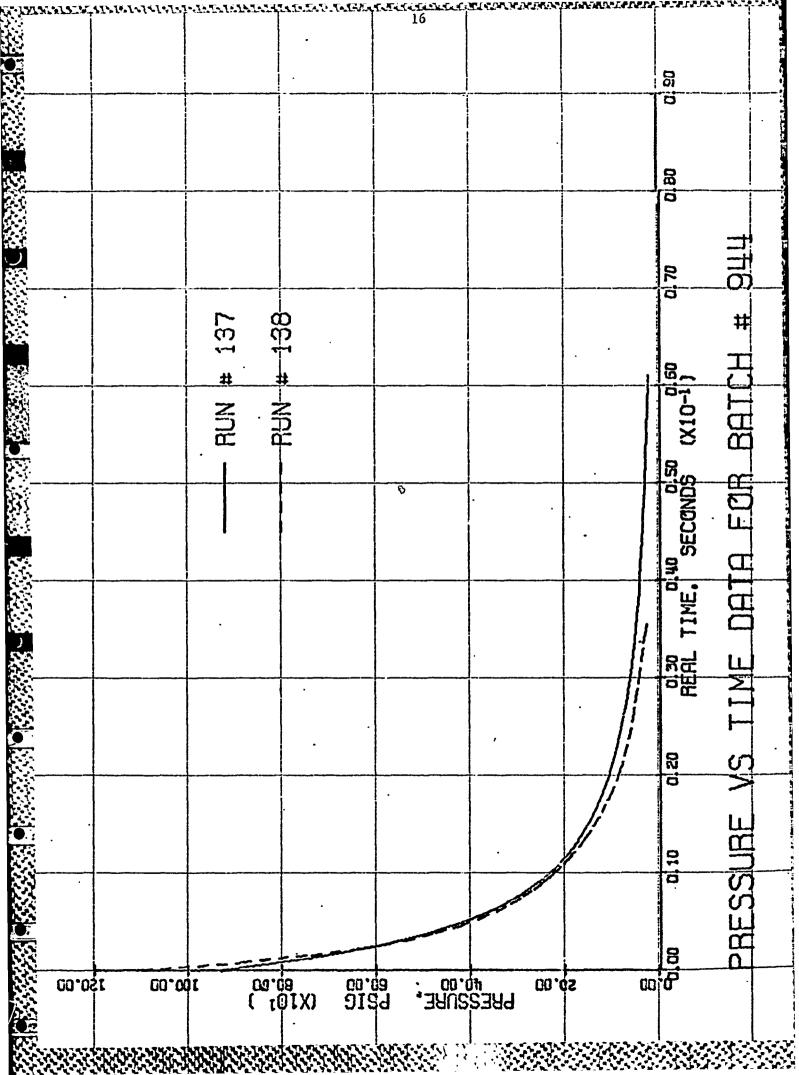
```
T=(TIME#RREF##2)/ALPHA
DATA FROM RUN = 131
                             LN(P)=A + 3#T +C#T##2 +D#T##3 +E#T##4
                                           +F*T**5 +G*T**5 +H*T**7
   TIME
                  T *(5)
         550.0
                           \Delta = 0.1449837130-01 E= 0.7876420937-02
0.3
                  7.)
                           B=-0.7313133899 00 F=-0.7432633409-03
                -0.3060
 0.0014
         405.7
                           C= 0.1314045320 00 G= 0.365675518D-04
0.0054
         215.0
                -3.9393
                           D=-7.4748873269-01 H=-0.7244661520-06
0.0114
         133.7
                -1.4424
0.0154
         85.7
                -1.3673
                -2.2155
0.0214
          60.0
                                  TIME
                                           D
                                                  LN(P)
                                0.0009
                                        495.2
                                                -0.1232
0.0264
          45.0
                -2.5033
                -2.7545
                                                -0.2538
                                0.0016
                                        422.5
          35.7
 0.0314
                                               -0.3840
          25.3
                -3.0910
                                0.0022
                                        374.5
 0.0414
                                                -0.5861
 0.0514
          20.0
                -3.3142
                                0.0034
                                        306.1
                                         T=(TIME#QREF##2)/ALPHA
DATA FROM RJT # 132
                             Lit(P)=A +3+T +C+T++2 +3+T++3 +E+T++4
                                           +F*T**5 +3*T**6 +H*T**7
   T145
           ,
                  1312)
                          A= 0.1960028723-02 E=-0.2488401510 00
         435.0
 0.0
                  3.3
                           p=-0.7835331950 00 F= 0.5298759190-01
 0.0022
         253.0
                -7.5224
                          C=-0.3439754930 00 G=-0.5409808450-02
 0.0073
         133.7
                -1.2075
                           D= 0.5448544277 00 H= 0.2133994840-03
 0.0122
          33.3
                -1.5933
                -2.2041
 0.0172
          43.0
                                  71 YE
                                           P
                                                  LN(P)
 0.0222
         23.0
                -2.7431
                                        238.0 -0.5030
                                0.0025
 0.0272
          20.0
                -3.0756
                                                -0.7122
 0.0006
         377.5
                -0.1417
                                0.0031
                                        213.4
                                0.0044
                                        172.4
                                                -0.9258
 $100.0
         327.1
                -9.3967
         270.8
                -0.4738
                                0.0055
                                        147.7
                                                -1.0799
 0.0019
                                         T={TIMF#RREF##Z}/ALPHA
DATA FROM RJT. # 133
                             L'1(P)=4 +5#T +C#T##2 +D#T##3 +E#T##4
                                           +F#T##5 +G#T##6 +H#T##7
           2
   TIME
                  LK(P)
                           A= 0.2043799820-01 E= 0.1830053090-01
         412.0
                  0.0
 0.0
                           3=-0.9396272190 00 F=-0.1655151600-0?
         310.0
                -0.2345
 0.9913
                           165.0
                -2.3151
 0.0063
                                               H=-0.1327237740-05
                           D=-0.1162606550 0?
 0.0113
         120.3
                -1.2335
 0.0153
          82.0
                -1.4143
                                  TIVE
                                           b
                                                  LVIP
 2.0213
          52.0
                -1.3333
          57.0
                                0.9010 337.3
                                                -0.1935
                -2.1990
 0.0263
 3.0313
                -2.3321
                                0.0016
                                                -0.3235
          40.3
                                         295.0
 0.0413
          25.3
                -2.5721
                                0.0022
                                         263.7
                                                -0.4453
                -3.7253
                                0.0035
                                         214.2
                                                -0.6539
 0.3513
          23.5
                                         T=(T1 15#03E5%#2)/ALPHA
31T3 F2" 1 - J. 1 154
                             L 1(P)=2 + 50T +C0T002 +00T003 +E0T004
                                           45¢T**5 +3¢T**6 +H*T**7
           2
   TIME
                  -\mathbb{E} \setminus \{0\}
                           w= 0.3449849230-01 E=-J.3423233950-01
 0.0
         257. 7
                  0.0
                           t=-0.594)937113 00 F= 0.4837527780-02
 0.0011
         555.
                 - 3.1+31
         235.
                 -1.0174
                           f = -0.52?6816120-01
                                                3=-0.3219425730-03
 0.0061
                           P= 0.1674052430 00 4= 0.8202506050-05
                -1.4.43
 9.0111
         157.3
 0.0161
                -1.3751
          15.
                                  T1 'F
                                           D.
                                                  14(5)
 9.0211
          45.3
                 -2.3325
                                0.0012 539.0
                                               -1.1377
 3.0201
          45.
                -2.5133
          35.3
                                 0.0119
                                        459.3
                                                -7.3423
                 -2.9216
 0.3311
                                         37: 3
                 -0.2591
                                3.0025
                                                -0.4947
 1. 3.41
          25.3
          23.5
                -3.4 12
                                         317.1
                                                -3.7171
 3.7411
```

TIME DATA FOR	

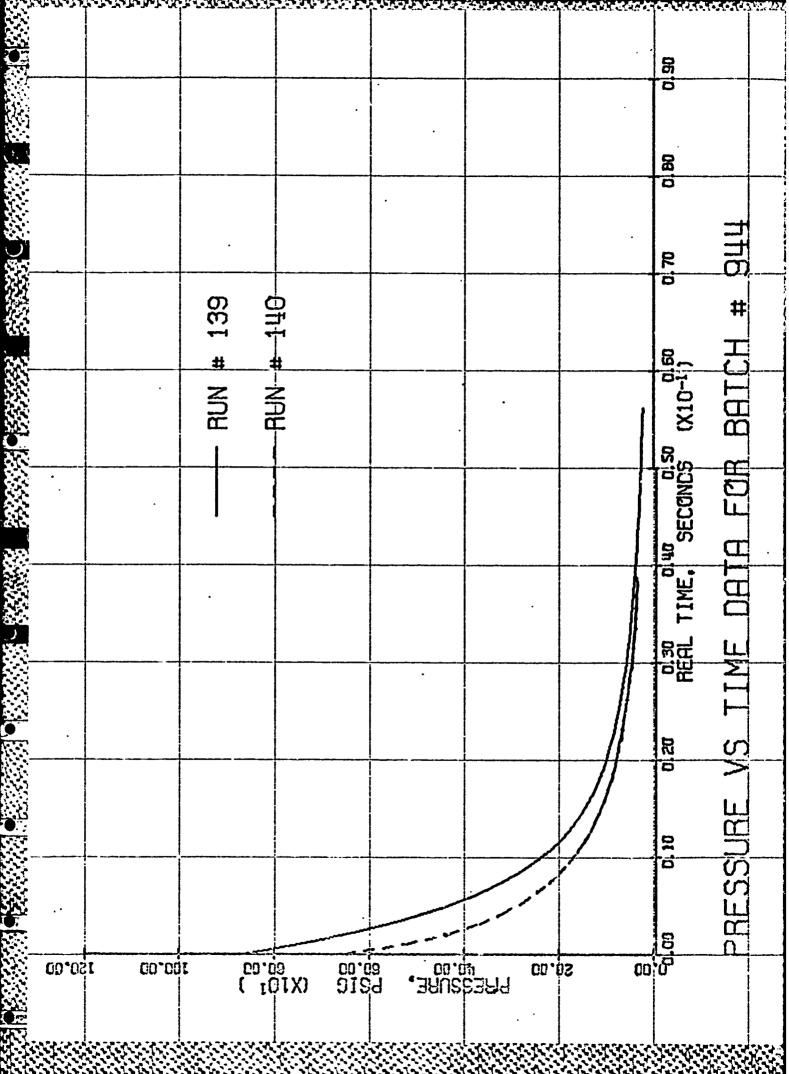


```
DATA FROM RUN # 135
                                         T=(TIME=RPEF##2)/ALPHA
                             LN(P)=A +3#T +C#T##2 +D#T##3 +E#T##4
   TIVE
            Đ
                   L'I(P)
                                           +F#T##5 +S#T##6 +H#T##7
 0.0
          337.0
                  0.0
                           A = 0.1342849389 - 02 = 0.2244772760 - 01
 0.0035
          220.0
                 -2.5465
                           B=-0.8306489630 00
                                                F=-0.2195191850-02
 0.0035
          135.0
                 -1.0349
                           C= 0.3388333620 00
                                                G = 0.1102083139 - 03
 0.0135
          90.0
                 -1.4404
                           D=-0.1254046970 00
                                                H=-0.2226030937-05
 0.0135
          65.0
                 -1.7653
 0.0235
          50.0
                -2.0281
                                   TIME
                                           p
                                                  LN(P)
 0.0285
          40.0
                 -2.2513
                                 0.0017
                                         255.3
                                                -0.3536
 0.0335
          32.0
                 -2.4744
                                 0.0023
                                         237.7
                                                -0.4692
 0.0435
          20.0
                 -2.3444
                                 0.0036
                                         202.1
                                                -0.6313
 0.0011
          297.1
                 -0.2392
                                 0.0048
                                         169.8
                                                -0.8055
DATA FROM RUA # 135
                                         T=(TIME#RREF##2)/ALPHA
                             LN(P)=A +3#T +C#T##2 +0#T##3 +E#T##4
   T1 "1=
            P
                  LN(P)
                                           +F+T++5 +G+T++6 +H+T++7
 0.0
         325.0
                  0.0
                           £= 0.3297514550-02
                                                F=-0.1255777320 00
 0.0006
                -0.1139
         293.9
                           8=-0.7845365537 90
                                               F= 0.2531619760-01
 0.0012
         255.0
                -0.2425
                           C=-0.1555537250 00
                                               G=-0.2421531950-02
 0.0019
         212.0
                -0.4272
                           D= 0.2920348149 00 H= 0.3932765890-04
 0.0025
         142.0
                -0.5263
 0.9927
         190.0
                 -0.5363
                                  TIME
                                          P
                                                  FA(b)
 9.0050
         135.0
                -0.3786
                                0.0177
                                          42.0
                                                -2.0452
 0.0062
         110.0
                -1.0933
                                0.0227
                                          28.0
                                                -2.4515
 0.0077
         105.0
                -1.1299
                                0.0277
                                          15.9
                                                -3.0758
 0.0127
          65.0
                 -1.6094
                                0.0037
                                         151.7
                                                -0.5983
DATA FROM SUN # 137
                                         T=(TIME=RREF==2)/ALPHA
                             LN(P)=1 +3*T +C*T**2 +D*T**3 +E*T**4
   TIME
           ٦,
                   1 V(P)
                                           +F+T++5 +G+T++6 +H+T++7
 0.0
         935.3
                           A=-0.7862926730-02
                  0.0
                                                E= 0.2092952960-03
 0.0036
         517.0
                -0.5051
                           3=-0.6764713350 00 F= 0.2434190260-04
 0.0085
         245.7
                 -1.2603
                           C= 0.5865999207-01
                                               G=−0.2011360660-05
 0.0135
         157.0
                -1.7225
                           0 = -0.7975749150 - 02
                                               H= 0.4349320337-07
 0.0186
         113.7
                 -2.1132
 9.0235
          35.0
                -2.3974
                                  TIME
                                           P
                                                 LM(2)
 0.0254
          65.7
                                          20.0
                -2.5562
                                0.7635
                                                -3.3448
 0.0335
          50.0
                -2.3295
                                0.0010 771.5
                                                -0.1922
 0.7435
          35.0
                -3.2352
                                0.0016
                                        672.2
                                                -0.3300
 0.0536
          25.0
                 -3.4217
                                0.0029
                                        550.0
                                                -0.5306
DATA FILE PUBLISHED
                                        T=(1115*2255**2)/2LP43
                             LN(2)=4 +3*T +C*T**2 +0*T**4 +5*T**4
   TIVE
                  L'a(P)
                                           +FAT#25 +GAT#46 +H#T##7
0.0
        1005.0
                 1.0
                           0.0023
         573.
                -0.4321
                           F=-0.1347949635 31
                                                F=-0.7167202317-03
0.0073
         312.7
                -1.2463
                           C= 1.33454972(9 30 G= 0.2058313259-04
 0.0121
         13).)
                -1.7944
                           f=-1.3231722?2 )-01 H=-0.1791643390-64
 0.0179
         111.3
                -2.2795
 0.0233
          72.2
                -2.7127
                                  TIFF
                                          Ç
                                                 L'1(P)
 3.0273
          50.0
                -3.3773
                                9.0011
                                       300.2
                                                -0.2070
 0.0323
          35.3
                -3.4340
                                0.0017
                                        599.2
                                                -5.4524
 0.0373
          27.3
                -3.333.
                                0.9955
                                                -3.4031
                                        542.5
 0.0005
                -5.1173
         904.4
                                0.0012
                                                -11.7253
                                        423.5
```





```
DATA FROM RUN # 139
                                       T=(TIME#RPEF##2)/ALPHA
                            LR(P)=A +8*T +C*T**2 +0*T**3 +E*T**4
   TIVE
                  LN(P)
                                         +F#T##5 +G#T##6
 0.0
         820.0
                 0.0
                          A = 0.4760250990-01 E = -0.1319748630-02
 0.0013
         775.0
                -0.0554
                         S=-0.4843530639 00 F= 0.7103238569-94
 0.9035
         515.0
                         -0.4651
 0.2085
         270.0
                -1.1109
                         D = 0.1026595200-01
 0.0135
         165.0
                -1.5034
 0.0185
         110.0
                -2.0038
                                 TIME
                                        P
                                              LN(P)
 0.0235
          30.0
                -2.3273
                               0.0365
                                       40.C
                                             -3.0204
 0.0285
          50.0
                -2.5150
                               0.0495
                                       28.0
                                             -3.3771
          47.0
                -2.3592
                               0.0585
 0.0335
                                       20.0
                                             -3.7136
CAL F PUR PORT ATAC
                                      T=(TIME#RREF##2)/ALPHA
                            Li!(P)=4 +3#T +C#T##2 +0#T##3 +E#T##4
   TIME
                 F4(5)
                                         +F#T##5 +G#T##6 +H#T##7
 0.0
         545.0
                 0:0
                         0.0014
        47).0
                -0.3165
                         B=-0.3019507670 00 F=-0.1777676440-02
                -0.9630
                         0.0064
         245.7
 0.0114
         145.3
                -1.4925
                          D=-0.8196622790-01 H=-0.2170233880-05
                -1.3541
 0.0144
         100.0
 0.0214
          70.0
               -2.2203
                                 TIME
                                        P
                                               LN(P)
 0.0264
          55.0
                               0.0007
                                      570.5
                -2.4519
                                            -0.1227
 0.0314
          42.0
                -2.7316
                               0.0013
                                      499.2
                                             -0.2562
 0.0414
          37.0
                -2.8583
                               0.0019
                                      443.7
                                             -0.3740
 0.0514
          20.0
                -3.4735
                               0.0032
                                      364.5 -0.5707
DATA FROM RUN # 141
                                      1=(T14E#025F##2)/ALPHA
                            LN(P)=A +8*T +C*T##2 +D*T##3 +6#T##4
                                         +F*T*** +3*T*** +H*T**7
   TIME
          P.
                 f 1(b)
 0.0
         55).1
                 0.0
                         A= 0.2042132630-02 E= 0.2262698920-02
         332.0
 0.0033
                -0.5315
                         3=-0.7073933990 00 F=-0.110339376D-03
 0.0033
         203.0
                -1.1394
                          C = 0.1323338430 00 G = 0.2137074950-05
 0.0130
         123.0
                -1.5243
                          D=-0.226331344D-01
                                            H=-0.634196719D-08
 0.0137
         33.7
                -2.0531
          50.0
 0.0230
                -2.3325
                                 TIME
                                               L4(P)
 0.0230
          45.)
               -2.5703
                              0.0630
                                       20.0
                                            -3.4812
                -2.9215
 0.3333
          35.)
                              0.0010
                                      544.3
                                             -0.1775
 9.0430
          23.0
                -3.1443
                              0.0022
                                      425.0
                                             -0.4226
 0.0533
          23.0
                -3.3415
                              0.0035
                                      355.0
                                             -3.6049
DATA F-31 FJ: 142
                                      A-411 15#7855##21/ALPHA
                            LT(P)=A +2*T +C*T**2 +0*T**3 +5*T**4
   TIME
                 [4{P}
                                        +54T445 +64T446 +H4T447
         515.9
                 0.9
                         Δ= 0.2?22534010-02 E= 0.1417310030-01
 0.0
               -0.5205
        330.0
 0.0031
                         S=-0.7885125690 00 F=-0.1851765830-02
 0.0081
        177.)
                -1.0338
                         C= 0.2602575510 00 G≈ 0.6441405599-64
 0.0131
         135.3
                -1.570~
                         D=-0.70°72276€0-01 4=-0.1203345300-05
                -1.7971
 0.0161
          75.7
          55. 7
                                 1125
                                       O
 0.0231
                -2.2172
                                               £ 2(2)
 0.0291
          45.7
                -2.9179
                               0.0011
                                     400.3
                                             -3.2113
 9.933F
          33.0
                -2.5,62
                               0.0017
                                             -0.3365
                                      350.7
          23.3
                                      204.5
 3.0431
                -3.3201
                               3.0379
                                             -0.5322
                -7.41.45
 J. 7531
          15.7
                               9.0092
                                      241.5
                                             -2.7021
```



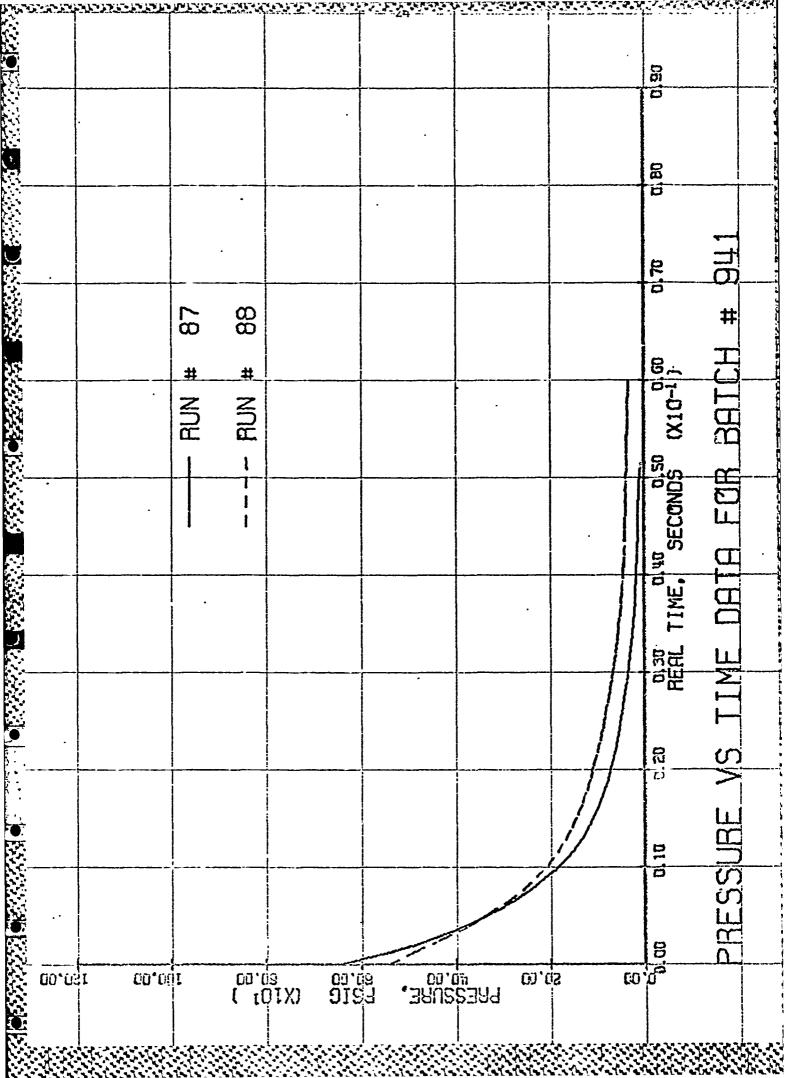
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```
DATA FROM RUN # 143
                                     T=(TIME#RREF##2)/ALPHA
                          LN(P)=4 +3*T +C+T**2 +9*T**3 +E*T**4
          Э
                                       +F*T**5 +G*T**6 +H*T**7
  TIME
                 LV(P)
        377.3
                        A= 0.19798403390-01 E=-0.4478405610-01
0.9
                0.0
               -0.5955
                        3=-0.3943953050 00 F= 0.5989847510-02
0.0943
        215.0
                        C=-0.2715420690 00 G=-0.3772484380-03
0.0093
        122.0
               -1.1521
               -1.5767
                        D= 0.1311106500 00 H= 0.9327483610-05
0.0143
         79.0
 0.0193
         55.0
               -1.9585
         47.0
               -2.2773
                                       Ъ
                                             LN(2)
0.0243
                               TIME
               -2.5649
 0.0293
         30.0
                             0.9917
                                     308.7
                                           -0.2336
               -2.7381
                             0.0030 243.7 -0.4700
0.0343
         24.7
               -2.9704
 0.0393
         20.0
                             0.0042 203.1
                                           -0.6523
               -0.0870
                             0.0074
                                    130.0
                                          -1.0986
 0.1011
        357.5
DATA FROM PUN : 145
                                     T=(TIME*PREF##2)/ALPHA
                          L'1(P)=A +9#T +C#T##2 +D#T##3 +E#T##4
                                       +F*T**5 +G*T**6 +H*T**7
  TIVE
          þ
                LV(P)
                       955.0
                0.0
 0.0
                       B=-0.8062715020 00 F=-0.6140282950-03
 0.0002
        920.0
               -7.0418
        350.0
               -0.3932
                        0.0052
                        D=-0.4509992430-01 H=-0.472279438D-06
 0.0102
        192.3
               -1.4936
 0.0152
        125.0
               -1.9229
 0.0202
         35.0
               -2.3084
                                      P
                                             LN(P)
                               TIME
 0.0252
         65.0
               -2.5767
                             0.0502
                                      20.0
                                          -3.7554
 0.0302
         50.0
               -2.8391
                             0.0602
                                     15.0 -4.0431
         40.
               -3.0622
                             8000.0
                                     739.5
                                            -0.1452
 0.0352
 0.0402
         30.3
               -3.3499
                             0.0021
                                    554.6 -0.4329
                                     T=(TIME#RREF##2)/ALPHA
DATA FROM KUN # 145
                          LY(P)=4 +64T +C4T442 +D4T443 +E4T444
                                       +F*T**5 +G*T**5 +H*T**7
  TIME
          Ъ.
                F/3(5)
                       A= 0.13,9455840-01 E= 0.5958472720-03
       1595.0
0.0
                0.0
               -0.3847
                       B=-0.570739170) 00 F= 0.455217C43U-04
 0.3922
        405.1
                        C= 0.1141635449 00 G=-0.5704337510-05
0.0072
        215.0
               -1.0179
 0.0122
               -1.4469
                        D=-0.149849189D-01 H= 0.154010848D-03
        140.0
 0.0172
         95.0
               -1.3347
 0.0222
        67.C
               -2.1339
                                      Э
                                             LN(P)
                               TIME
               -2.4765
                             0.0572
                                     20.0 -3.3928
 0.0272
         50.0
 0.0322
         40.0
               -2.5997
                             0.0011
                                     517.3 -0.1390
               -2.3223
                                            -0.2737
 0.3372
         3?.)
                             0.0017 450.3
               -3.2975
                             0.0029
                                     359.9 -0.4754
 3.347?
         22.0
                                     1=(TI :==>9E=##2)/ 1 0 44
DATA FYDY RITE & 147
                          L4(7)=4 +3#T +C#T##2 +7#T##3 +F#T##4
                                       +F#T##5 +G#7##6 +H#T##7
  TI"C
         .
                L4(P)
                        0.0
        350.0
               0.0
                       8=-0.603159805D 00 F= 0.1371919140-01
 0.0007
               -0.1503
        740.7
                        543.3
               -0.2315
 0.0014
                        U= J.1135614750 00 H= 0.5846502090-04
               -0.4341
0.0124
        231.7
               -3.5245
 0.0024
        531.3
                                      Э
 0.0032
               -~.5.55
                               11.17
                                             F.1(3)
        74?.C
               -0.3798
        3:).7
                             0.0174
                                      57.3 -2.7139
 0.0045
               -1.1044
 0.0057
        ? 13. 7
                             3.6224
                                      33.0
                                           -3.3557
                             0.0274
                                           -4.0437
 3.6674
        215.0
               -1.55
                                     15.0
 0.3124
        100.0
               -2.1512
                             3.3323
                                     571.3
                                            -0.4000
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DATA FROM RUN #
                  37
                                          T=(TIME#RPEF##2)/ALPHA
                              LN(P)=A +8*T +C*T**2 +D*T**3 +F*T**4
            Э
   1145
                   LV(P)
                                            +F#T##5 +G#T##6 +H#T##7
 0.0
          635.0
                  J.)
                            A= 0.9835332410-02
                                                 E= 0.1055635639-01
 0.0036
          390.0
                            9=-0.5502068760 00 F=-0.1364472040-02
                 -0.4975
          215.0
 0.0085
                 -1.0330
                            C= 0.8543379520-01 G= 0.8308869730-04
          125.0
 0.0135
                 -1.6253
                            D=-0.3943343920-01
                                                 H=-0.1920137380-05
 0.0135
          33.3
                 -2.7716
 0.0236
          55.9
                 -2.4453
                                    TIYE
                                            Р
                                                    LN(P)
 0.0286
           40.0
                                          619.4
                 -2.7647
                                 0.0002
                                                 -0.0249
 0.0335
           27.0
                 -3.1578
                                 6.0003
                                         577.7
                                                 -0.0945
 0.0435
           15.0
                 -3.7456
                                 0.0014
                                          536.1
                                                 -0.1693
 0.0536
            5.0
                 -4.3442
                                 0.0021
                                          473.5
                                                 -0.2932
DATA FROM PIN #
                 8.5
                                          T=[TI4E*RREF**2]/ALPHA
                              LN(P)=A +8*T +C*T**2 +0*T**3 +F*T**4
   TIME
            O
                   LW(P)
                                            +F*T**5 +G*T**5 +i!+T**7
 0.0
         525.0
                  0.0
                            A = 0.2759337599-01
                                                 E=-0.7907418680-02
 0.0027
         405.0
                            S=-0.2659757930 00 F= 0.6660915510-03
                 -0.2595
 0.0077
         255.0
                 -0.7221
                            C=-0.1123542110 00 G=-0.2761757210-04
 0.0127
                 -1.1276
         170.0
                            9 = 0.471343235 - 91
                                                H= 0.4482353490-06
 0.0177
         125.0
                 -1.4351
 0.3227
          75.0
                 -1.7095
                                   TIME
                                                   LN(P)
 0.0327
          50.0
                 -2.1691
                                 0.0006
                                          519.5
                                                 -0.0105
 0.0427
          43.0
                 -2.5022
                                          503.1
                                 0.0012
                                                 -0.0426
 0.0327
          33.0
                 -2.5258
                                          475.8
                                 0.0019
                                                 -0.0984
 0.0527
          33.0
                 -2.7659
                                 0.0025
                                          432.0
                                                 -0.1949
PILE MORE ATAC
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +6#T +C#T##2 +D#T##3 +E#T##4
   TIME
            ρ.
                   LN(P)
                                            +F#T##5 +G#T##6 +H#T##7
 0.0
        · 700.0
                  0.7
                            A= 0.5541333310-02
                                                E=-0.3250473230-02
 0.0030
                            8=-0.6939795149 00 F= 0.7600602387-03
         440.0
                 -0.4543
 0.0080
         235.0
                           C= 0.11:3478630 00 G=-0.5333425330-04
                 -1.0915
 0.0130
         145.0
                 -1.5743
                            0=-0.9142973390-02
                                                H= 0.1022116665-05
 9.0180
          92.0
                 -2.0293
 0.0230
          50.9
                 -2.6391
                                   TIME
                                                   F#(5)
 0.0350
          25.0
                 -3.3322
                                 0.0022
                                          473.2
                                                 -0.3079
 0.0004
         552.5
                 -0.0549
                                 3.7079
                                         433.7
                                                 -0.4957
 0.0010
         つうう・つ
                 -2.1794
                                 0.0035
                                         397.5
                                                 -0.5657
 0.0015
         5? 7.0
                 -0.2301
                                 0.0047
                                          324.5
                                                 -0.7321
DATA FROM VIEW
                  30
                                         T=(TIME##PFF##?)/ALPHA
                              L ((P)=4 +7#T +C#T##2 +O#T##3 +E#T###
   11:2
           7
                   L:(2)
                                            45 #T##5 +3#1##6 +H#T##7
 3.7
         415.3
                  5.7
                           ^= 1.7 -1 ) > ? 2 37 1-02
                                                9=-0.7818559250-01
         315.)
                           ?=-0.5941199340 00 F= 0.1534806780-01
 0.0315
                 -7.2757
 3.3353
         145.0
                           (r-1.2)*372212 + 00 | 0=-0.1557945450-02
                 -1.):15
                 -1.5355
 0.0115
                            1= 0.2075624521 00 H= 0.5496736720-04
          35.)
 0.0155
          50.0
                 -2.11-3
0.32.3
          33.3
                 -7.5?7!
                                   TITE
                                            a
                                                   1:121
 0.0215
          23.0
                 -2, 1794
                                 0.0013
                                          312.3
                                                 -0.2543
 1. 124 1
                 -1,3000
                                 1,0001
          15.3
                                          243.3
                                                 -0.5117
 0.0245
          10.5
                 -0.7207
                                 0.3343
                                          234. 1
                                                 - 3.4933
 1.0005
         321.7
                 -). >>7:
                                 3. 13. 3
                                         147.1
                                                 -1.3440
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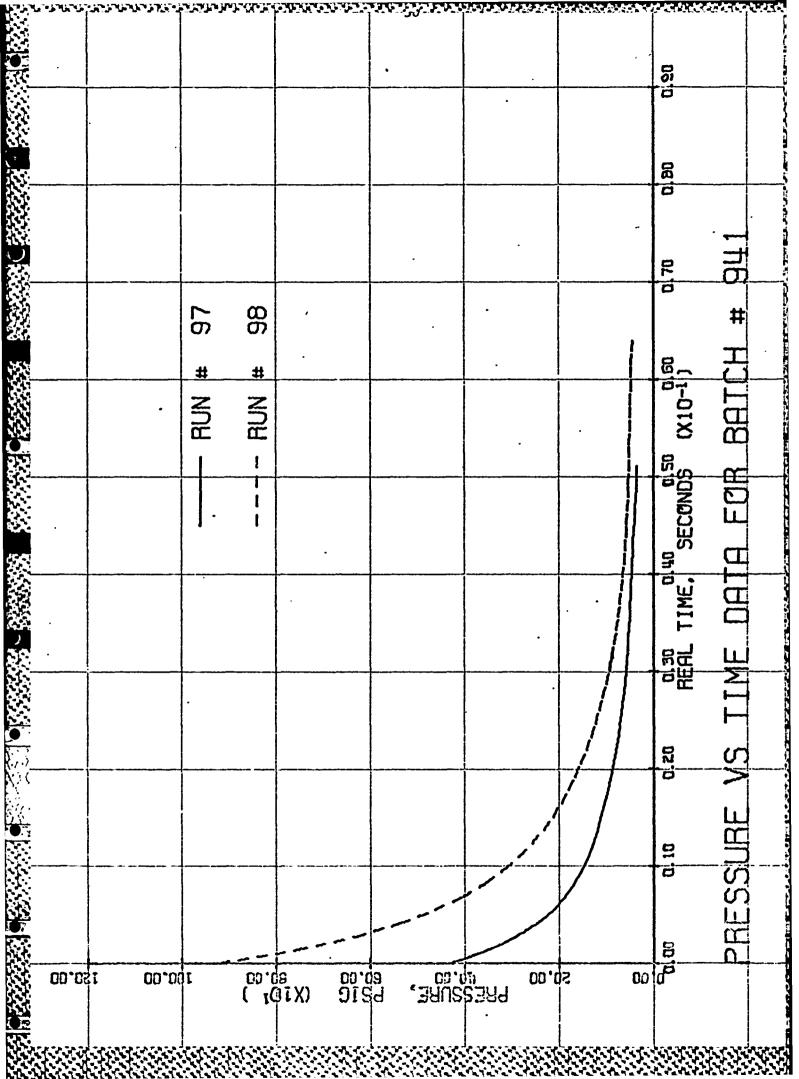
```
T=(TIME#RREF##2)/ALPHA
DATA FROM PJ. 4
                 31
                            LN(P)=A +3+T +C+T++2 +0+T++3 +6+T++4
                                         +F#T##5 +G#T##6 +H#T##7
          Э
   TIME
                 L ((?)
                          A= 0.2689935249-01 E= 0.9627413560-02
0.0
         675.0
                 7.7
                          8=-0.8780985860 00 F=-0.8004855280-03
 0.0050
        303.0
                -0.310%
                          C= 0.2528669810 00 G= 0.3423688490-04
                -1.3672
 0.0100
         172.0
                          D=-0.6431986950-01 H=-0.5326363960-05
         110.7
 0.0153
                -1.3142
                -2.1772
 0.0200
          75.0
         43.7
                -2.3259
                                         D
                                                FM(b)
 0.0300
                                 TIME
 0.0400
          25.0
                -3.2959
                               0.0009
                                      535.8
                                             -0.1491
                -3,5190
                               0.0015
                                      510.2 -0.2799
 0.0500
         20.0
                                              ~0.4253
 0.0700
          10.0
                -4.2121
                               0.0021
                                       441.1
 0.0002
         554.4
                -0.0159
                               0.0027
                                       390.1
                                              -3.5433
                                       T=(TIME*RREF**2)/ALPHA
DATA FABN PUN # 92
                            LN(P)=4 +8#T +C#T##2 +D#T##3 +E#T##4
                                         +F*T**5 +G*T**6 +H*T**?
           •
                 [4(P)
   TIME
                          A = 0.9125042040 - 02 F = -0.3949531350 - 01
         415.)
                 0.3
 0.0
                          S=-0.5360173340 00 F= 0.1443775020-01
C=-0.1900459490 00 G=-0.1086578310-02
 0.0043
                -0.3079
         135.7
 0.0093
         110.0
                -1.3273
                          D= 0.252337269D 00 H= 0.307572857D-04
 0.0143
          75.0
                -1.7108
 0.0243
         42.0
                -2.2306
                -3.3325
                                                L'1(2)
                                 TIME
                                         Р
 0.0349
          23.7
                                      276.7
                                              -0.4055
 0.0448
          5.0
                -4.4133
                               0.0021
                               0.0027 245.7 -0.5242
 0.0002
         407.3
                -0.0183
 0.0009
                               0.0039 197.0 -0.7451
         359.7
                -0.1431
                                              -0.9502
                -0.2744
                               0.0052
                                      160.5
 0.0014
         315.4
B PUR VERR ATAG
                                       T=(TIME*RREF**2)/ALPHA
                73
                            LN(P)=4 +8*T +C*T**2 +0*T**3 +E*T**4
                 LV(P)
                                         +F*T **5
   TIME
           ,
                         0.0
         463.3
                0.)
                                              E=-0.6425389740-02
 0.0005
         400.7 -0.1393
                          °=-0.1180705750 01
                          C= 0.2053518920 00 F= 0.6420521870-03
 0.0015
         300.0
                -).4274
                               · TIME
                                        P
                                               F./(5)
 0.0003
         350.0
                -0.2451
                               0.0123
                                        33.0 -2.4936
 0.0013
        343.3
                -0.3023
 0.0023
         205.7
                -7.3732
                               0.0178
                                        15.0
                                              -3.4232
                                              -4.5218
 0.0073
          32.7
                -1.7245
                               0.0223
                                        5.J
DATA FROM RULE = 1
                                       T=(TIME#RKEF##2)/4LPHA
                 74
                            L :( D ) = A + 3*T + C = T * # 2 + D = T * # 3 + E = T * # 4
                 L:(2)
                                         +==T#=5
  11.2
           3
                         0.0
         502.0
                 3.3
         35).1
                -9.3537
                         -=-).6046027360 00 E= 0.4477311100-03
 0.002.
                          C= 0.3650320090-01
                                              F=-0.90007:733D-05
                -9.9213
 0.3775
         20).)
 0.0125
                                 TILE
                                         ં
                                                £4(2)
         137.0
                -1.3511
                                              -2.5297
                -1.5335
                               0.3425
                                        40.0
 3.0175
         99.3
                               ე•05აა
                                        35.0 -2.5633
 0.022,
         73.3
                -1.3019
 0.0325
          55.3
                -2.2113
                               0.0555
                                        30.0 -2.3174
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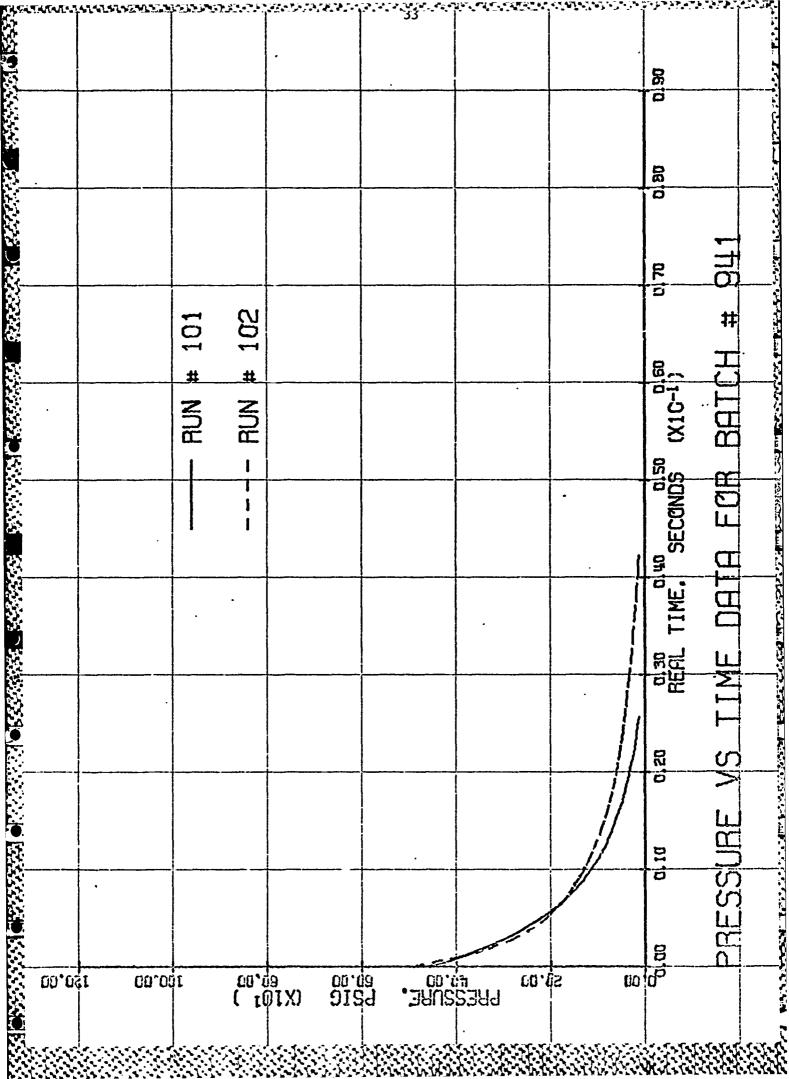
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B PLR PCRF ATAC
                   77
                                           T=(TIME*RRFF**2)/ALPHA
                               LN(P)=4 +5*T +C*T**2 +D*T**3 +E*T**4
    TIME
            o
                    LH(P)
                                             +F#T##5 +G#T##6 +H#]##7
 0.0
          420.0
                   0.0
                             A = 0.1529233670-01
                                                  E=-0.5178502800-02
 0.0043
          235.0
                  -0.5807
                            5=-0.567811451J 00
                                                 F= 0.7010999170-03
 0.0033
          155.0
                  -0.9958
                            C = 0.5397693900-01
                                                  G=-0.4175293460-04
 0.0143
          115.0
                             D= 0.1177762200-01
                  -1.2953
                                                  H= 0.9282413330-05
 0.0193
           33.0
                  -1.5529
 C.0243
           72.3
                  -1.7636
                                    TIME
                                             p
                                                    LN(P)
 0.0343
           52.0
                  -2.0890
                                  0.0007
                                          333.9
                                                  -0.0770
 0.0443
           42.0
                  -2.3026
                                  0.9014
                                          350.0
                                                  -0.1323
 0.0543
           41.3
                  -2.3267
                                  0.0020
                                          320.0
                                                  -0.2719
 0.0001
          415.7
                  -0.0080
                                  0.0026
                                          294.4
                                                  -0.3552
BATA FREE PATAG
                  93
                                          T=(TIME+xREF++2)/ALPHA
                              LN(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TIME
            P
                   LV(P)
                                             +F*T*+5
 0.0
          927.3
                  0.0
                            A=-0.7219448510-03
                                                  D=-0.343801568D-02
 0.0020
                  -0.2305
          695.0
                            9=-0.5592069440 00
                                                  E= 0.491667728D-03
 0.9070
          390.0
                  -0.3582
                            C = 0.7635995359 - 01
                                                  F=-0.106745605D-04
 0.0120
          265.0
                 -1.2445
                                    1145
                                            Ρ
                                                    LV(P)
 0.2173
          190.0
                 -1.5773
                                  0.0370
                                           72.0
                                                  -2.5477
 0.0220
          147.7
                 -1.3327
                                  0.0470
                                           55.0
                                                  -2.3170
 2.0270
          103.0
                 -2.1422
                                  0.0670
                                           40.C
                                                  -3.1355
BATA FOOT RUTH
                  93
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +3*T +C*T**2 +0*T**3 +E*T**4
   TINT
            Ç
                   LN(P)
                                            +F%T **5
 0.0
          543.0
                  0.0
                            t= 0.1614993870-01
                                                 D= 0.1959343130-02
 0.0013
         435.3
                 -0.1221
                            6=-0.4501497410 00
                                                 E=-0.1534572740-03
 0.0053
          270.0
                 -0.7079
                            C = 0.1025065349-01
                                                  F= 0.3652610490-05
        162.0
 0.0113
                 -1.2137
                                    71'E . 2
                                                    [11(2)
 0.0143
          100.0
                 -1.7011
                                 0.0453
                                           25.0
                                                  -3.0374
 0.0253
           55.0
                 -2.2989
                                 0.0553
                                           20.5
                                                  -3.3105
 0.9353
           35.0
                 -2.7509
                                 0.0563
                                           15.0
                                                 -3.5982
CCI # PUR CER ATAG
                                          T=(TIME#PREF##2)/ALPHA
                              LM(P)=4 +3*T +C*T**2 +0*T**3 +E*T**4
   TIVE
                   LA(D)
                                            +F#T##5 +3#T##5 +H#T##7
 9.9
         45?.)
                  2.9
                            4= 0.753237553)-04
                                                 F=-0.254473933D-03
 0.0009
         400.0
                 -3.1222
                            8=-0.5419172940 00
                                                F= 0.5327807330-04
 3.3712
          240.3
                 -7.2701
                            S= 0.7514227490-01
                                                 S=-0.2627384380-05
 0.0033
         272.3
                 -0.4959
                            0=-0.4752318300-02
                                                 H= 0.4239434559-67
 0.0059
         225.)
                 -0.5975
 3.0079
         190.0
                 -3.3547
                                   TIME
                                            P
                                                   [4(5)
 0.0099
         155.)
                 -1.3077
                                 0.0313
                                           55.0
                                                 -1.9373
 0.0119
         143.3
                 -1.1508
                                 0.0419
                                           50.4
                                                 -2.2017
 0.0169
         113.9
                 -1.3 152
                                 9.5519
                                           38.0
                                                 -2.4751
 0.0219
          9?.7
                 -1.5019
                                 0.0913
                                           30.0
                                                 -2.7125
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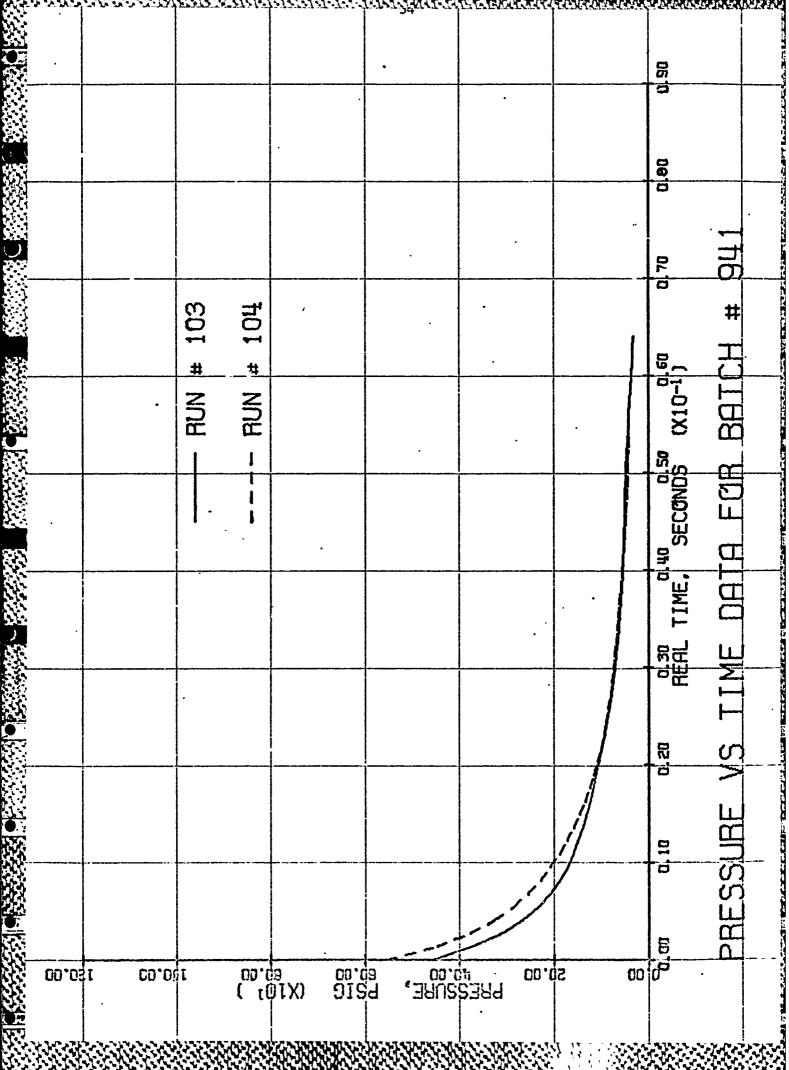
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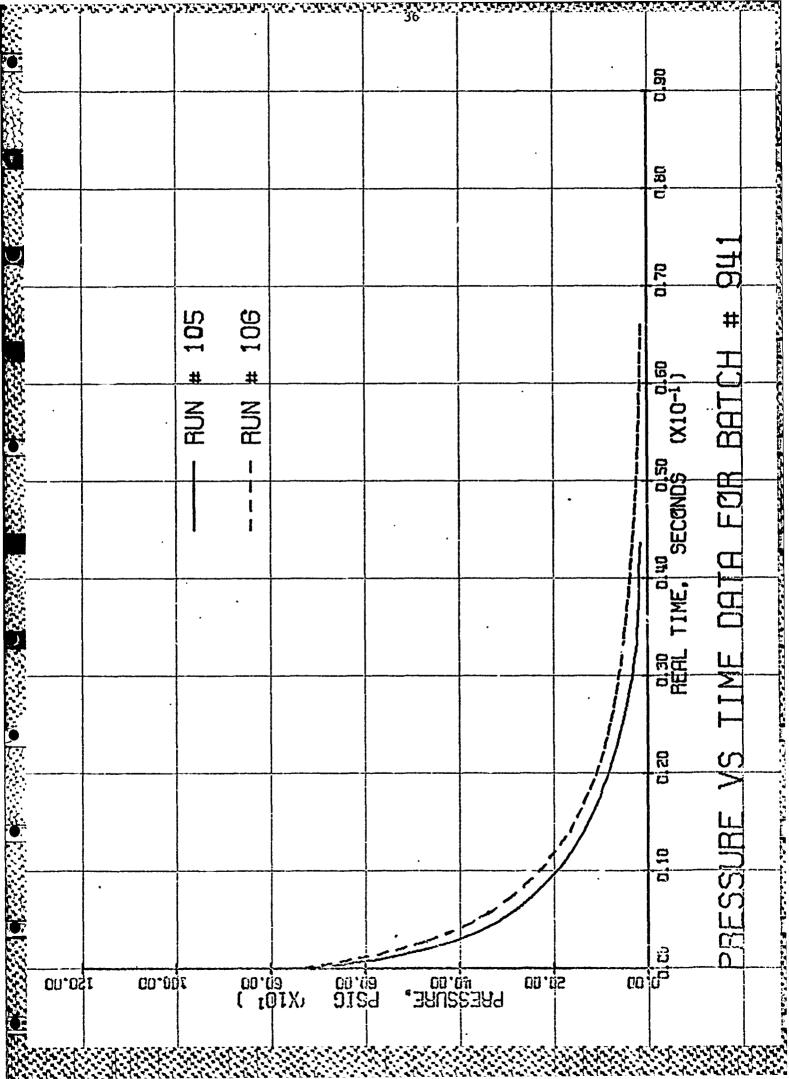
```
DATA FROM RIN # 101
                                         T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +B*T +C*T**2 +D*T**3 +E*T**4
   TIME
                   LN(P)
                                           +F *T * *5
 0.0
          455.0
                  0.0
                            A= 0.2795837300-03
                                               D=-0.351736429D-02
 J.0009
          400.0
                 -0.1233
                           B=-0.5752673340 00 E= 0.5581727090-03
 0.0017
          350.9
                 -9.2324
                           C = 0.3061098200-01
                                                F=-0.7137655980-04
 0.0025
          300.0
                 -9.4155
                                          Р
                                   TIME
                                                   LN(P)
 0.0044
                                          50.0
          243.0
                 -0.6397
                                 0.0157
                                                -2.2083
 0.0067
          175.0
                 -0.7555
                                                -2.9014
                                 0.0217
                                          25.0
 0.0117
           93.3
                 -1.6205
                                 0.0257
                                          10.0
                                                -3.3177
DATA FROM RUN # 102
                                         T=(TI4E#RREF##2)/ALPHA
                             LN(P)=A +B+T +C+T++2 +D+T++3 +F+T++4
   TIME
           S
                   FA(5)
                                           +F*T**5 +G*T**5 +H*T**7
 0.0
         475.0
                  2.2
                           A= 0.3130639940-01 E= 0.1455812360-01
 0.0012
          337.0
                 -7.2231
                           B=-0.9315312120 00 F=-0.1300048990-02
 0.0040
          232.0
                 -0.7166
                           C= 0.3224564730 00 G= 0.5948037300-04
 0.0090
         147.0
                 -1.2217
                           0=-0.9913502540-01 H=-0.1996795480-05
 0.0140
          75.7
                 -1.5094
 0.0190
          52.0
                 -2.0362
                                   TIME
                                          Р
                                                  LN(P)
 0.7240
          47.0
                 -2.3132
                                 0.0440
                                          19.0
                                                -3.3507
 0.0290
          35.0
                 -2.5090
                                 0.0005
                                         436.3
                                                -0.0849
          25.0
 0.0340
                 -2.9444
                                 0.0012
                                         381.1
                                                -0.2232
 0.0390
          17.3
                 -3.3301
                                 0.0024
                                        292.7
                                                -0.4341
DATA FROM PUN # 103
                                         T=(TIME#RPEF##2)/ALPHA
                             LN(P)=4 +3#T +C#T##2 +D#T##3 +E#T##4
   LINE
           S
                   FA(5)
                                           +F*T**5 +G*T**6 +H*T**7
         443.0
 9.9
                           Λ= 0.1342362557-01 E=-0.3372592610-03
                  0.7
 0.0017
                           B=-0.5973271530 00 F= 0.1406972550-03
         .355.3
                 -0.2327
 9.9357
                           C= 0.1131043740 00 G=-0.397340?270-05
         210.0
                 -0.7577
 0.0117
         153.0
                 -1.0309
                           \Omega = -0.1045009040-01 H= 0.1637027800-06
 0.0157
         123.0
                 -1.3173
 0.7257
                 -1.7223
          30.0
                                   TIME
                                           Þ
                                                  FN(P)
 0.0357
          53.7
                 -2.3443
                                0.0012
                                         373.9
                                                -0.1675
 0.0557
          40.0
                 -2.4159
                                0.0019
                                         345.5
                                                -7.2599
 0.0557
          35.0
                 -2.5494
                                0.0031
                                         240.9
                                                -0.4319
 0.0006
         414.5
                 -0.9776
                                0.0044
                                         253.0
                                                -0.5715
DATA FRANKUS 104
                                         T=(TIAE#PREF##2!/ALPH1
                             LI(P)=4 +34T +C#T##2 +D#T##3 +9#T##4
   TITE
                  [4(0)
                                           +F*T**5 +$*T**6 +H*T**7
         547.0
 0.0
                  ).)
                           #= 0.9311357840-02 E= 0.7044373115-02
 9.0012
         455.)
                -2.1424
                           5=-0.635352156D 00 F=-0.5301547439-03
 0.0032
         255.5
                 -0.7223
                           C= 0.1815505020 00 G= 0.2420565910-04
 0.0112
         132.0
                -1.1304
                           E=-0.4664375430-01
                                               H=-0.3993593110-06
 5.0142
         133.7
                -1.3772
 0.0312
                -1.5393
         177.0
                                   TIME
                                           o
                                                  L4(2)
 0.0252
          35.0
                 -1.3019
                                          43.0
                                0.0552
                                                -2.5432
 0.0313
          77.2
                -2.1566
                                0.055?
                                          40.0
                                                -2.0154
 0.0362
          52.0
                -2.1773
                                0.0021
                                         493.2
                                                -0.3051
 0.0442
                 -2.4643
          47.7
                                0.0027
                                         370.5
                                                -0.3897
```

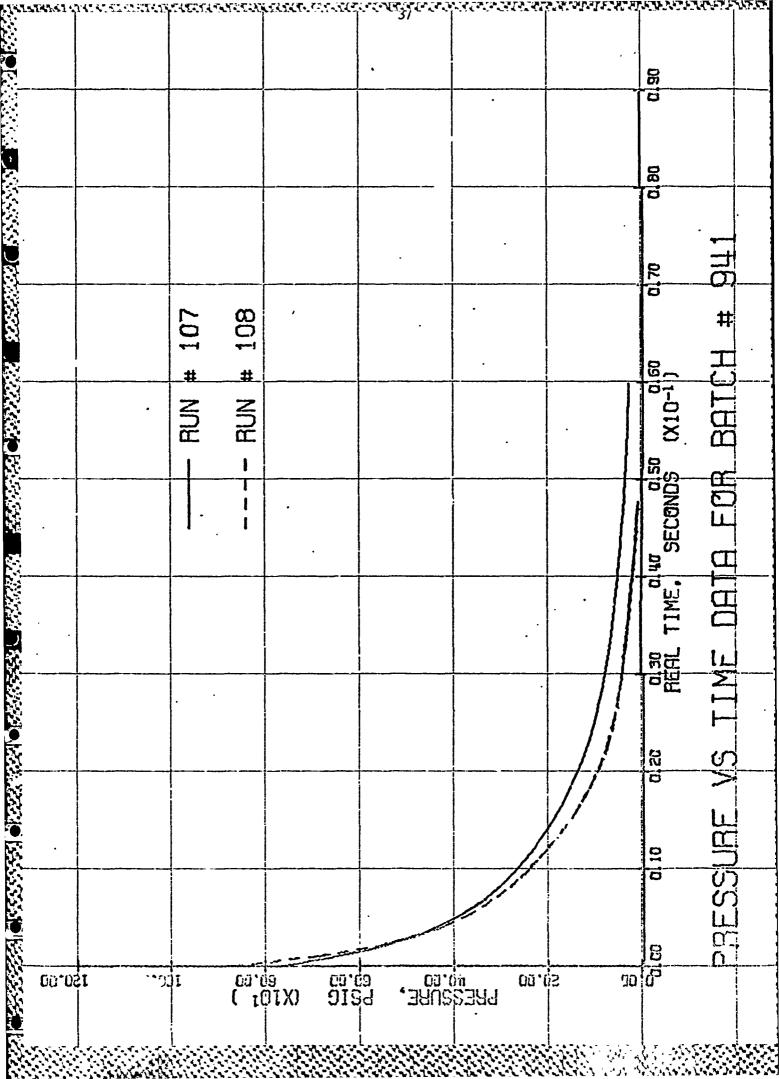




BATCH # 941 / 30.0% AP, 20.0% PBAA

```
T=(TIME*RREF**2)/ALPHA
DATA FROM RUN # 105
                               LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
                                             +F#T##5 +G#T##6 +H#T##7
                   LV(P)
            Ŋ
   TIME
                                                  E = 0.3939321990-01
                            A= 0.3059120967-01
          595.0
                  0.0
 0.0
                                                  F=-J.487455413D-02
                 -0.0982
                            B=-0.1001964039 01
 0.0005
          539.0
                            C= 0.4668015380 00 G= 0.309115414D-03
 0.0055
          290.0
                 -0.3740
                                                  H = -0.7756165940 - 05
                            0=-0.1763251637 00
                 -1.3791
 0.0115
          175.0
          115.7
                 -1.790
 0.0155
                                                     LM(P)
                                    TI 45
                                             9
           75.7
                 -2.2254
 0.0215
                                                  -0.1754
                                  0.0009
                                           533.2
                 -2.5319
 0.0255
           50.0
                                                  -0.3070
                                           511.3
           20.0
                 -3.5482
                                  0.0015
 0.0355
                 -4.2413
                                  0.0022
                                           447.4
                                                  -0.4406
 0.9455
           13.3
                                                  -0.5459
                                  0.0023
                                           402.6
                  -0.3351
 0.0003
          671.)
                                           T=(TIME=RREF**2)/ALPHA
DATA FROM RUN # 106
                               LN(P)=4 +8+T +C+T++2 +3+T++3 +E+T++4
                                             +F*T**5 +G*T**4 +H*****7
            ø
                    [4](b)
   TIME
                                                   E= 0.526233890D-02
                             \Delta = 0.1554671939-91
          720.0
                   0.9
 0.0
                                                   F=-0.4760018630-03
                             R=-0.6999331430:00
                  -0.5080
 0.0042
          392.3
                                                  G = 0.1844949770-04
                             C= 0.135916402D 00
 0.0092
          242.0
                  -1.0903
                             n=-0.4503222340-01
                                                   H=-0.2850120360-06
          179.2
                  -1.4435
 0.0142
 0.0192
          115.0
                  -1.3343
                                                     LN(P)
                                     TIME
                                             P
 0.0242
           30.0
                  -2.1972
                                                   -3.3604
                                  0.0492
                                            25.0
           65.0
                  -2.4049
 0.3292
                                            17.0
                                                   -3.7450
                                  0.0592
 0.9342
           43.0
                  -2.7030
                                            10.0
                                                   -4.2767
                                  0.0592
 0.9392
           40.9
                  -2.3934
                                                   -0.1330
                                           527.2
                                  0.0010
 0.0442
           39.3
                  -3.1791
                                           Y=(TIME#PREF##2)/ALPHA
DATA FFG4 RUN # 107
                               LN(P)=4 +8*T +C*T**2 +D*T**3 +5*T**4
                                              +F#T##5 +G#T##6 +H#T##7
            Ç
    TIME
                    1.1(2)
                                                   E= 0.6723088090-02
                             Λ= 0.9028999340-02
 2.0
          750.0
                   C.C
                                                   F=-0.4357792250-03
                             P=-0.6933066790 00
 0.0004
          715.3
                  -0.0478
                                                   G= 0.1777319430-04
                             C= 0.2043936340 00
 0.0054
          337.7
                  -0.5739
                                                   H=-0.2554994190-06
                             0=-3.439+414070-01
                  -1.1107
 0.0114
          247.)
                  -1.4553
 0.0154
          175.7
                                              P
                                                     [4(5)
                                     TIKE
          127.0
                  -1.7759
 0.0214
                                           734.2
                                                   -0.0213
                                   0.0002
                  -2.3434
  3.7314
           72.7
                                           663.2
                                                   -0.1231
                  -2.7459
                                   0.0003
 0.0414
           43.)
                                                   -0.2444
                                            537.4
                                   0.0014
                  -3.3242
 0.0614
            27.)
                                                   -0.3344
                                   0.0021
                                            535.5
                  -3.6743
  0.031+
            ? ) . )
                                            T=[TIME=RREF##2]/ALPHA
 DATA FROM R.F. # 108
                               [[:(P]=A +8*T +C*T**2 +0*T**3 +E*T**4
                                              +F*T**5 +3*T**6
                    L ((2)
    TITE
                                                   R= 0.123377943D-01
                             1= ).2014479750-01
                   3.3
           351.7
  0.7
                                                   ==-0.7534393730<del>-</del>03
                             3=-0.3454154537 00
                  -3.7771
  0.0043
           39).)
                                                   3= 0.1749694060-04
                             J= 0.3534331430 00
                  -1.7857
  0.1093
           235.0
                             0=-0.9436±03673-01
                  -1.5573
  0.0143
           102.3
                  -- 2 2 3 34
            93.1
  0.019;
                                                     LM(P)
                                     JIME
  9.9233
            42.3
                  -3.7)76
                                                   -0.2254
                                            573.4
                                   0.0011
            23.5
                  -3.74.5
  3.73.15
                                                   -0.3559
             5.º
                                   7.0017
                                            うらりゅう
                  -5.135)
  9.9493
                                                    -0.4713
                                   0.0024
                                            33).3
                  - ). 13-2
  3.0335
           779.5
```



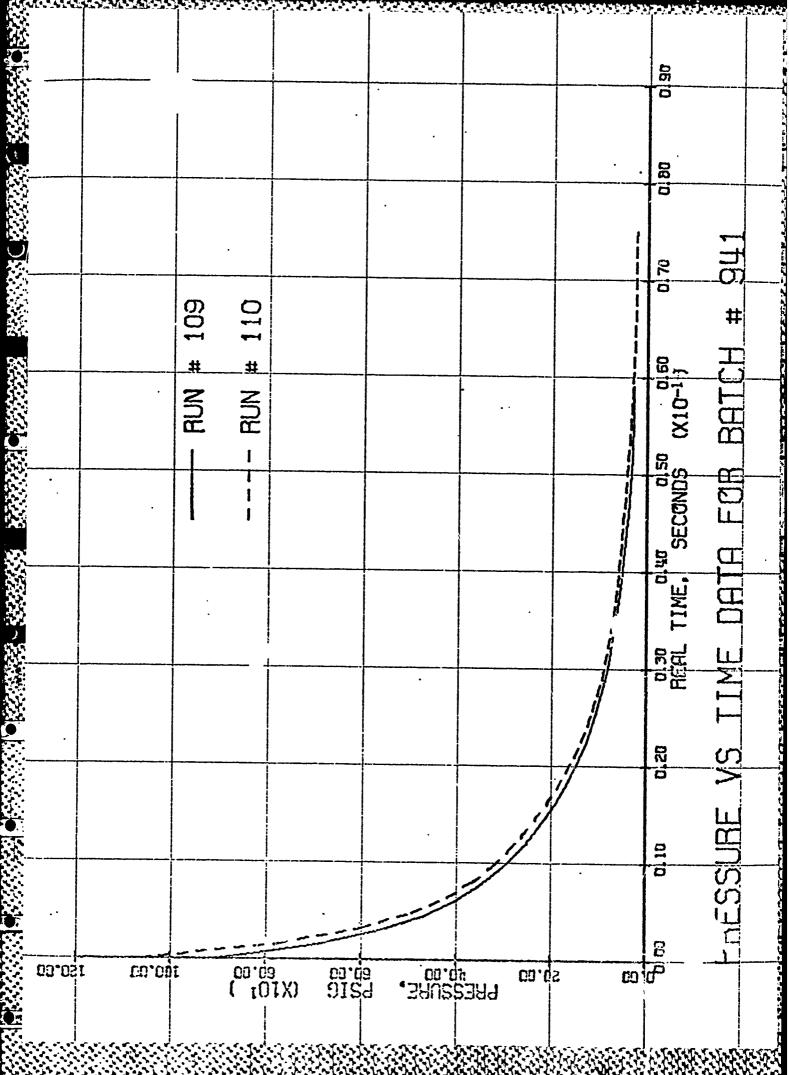


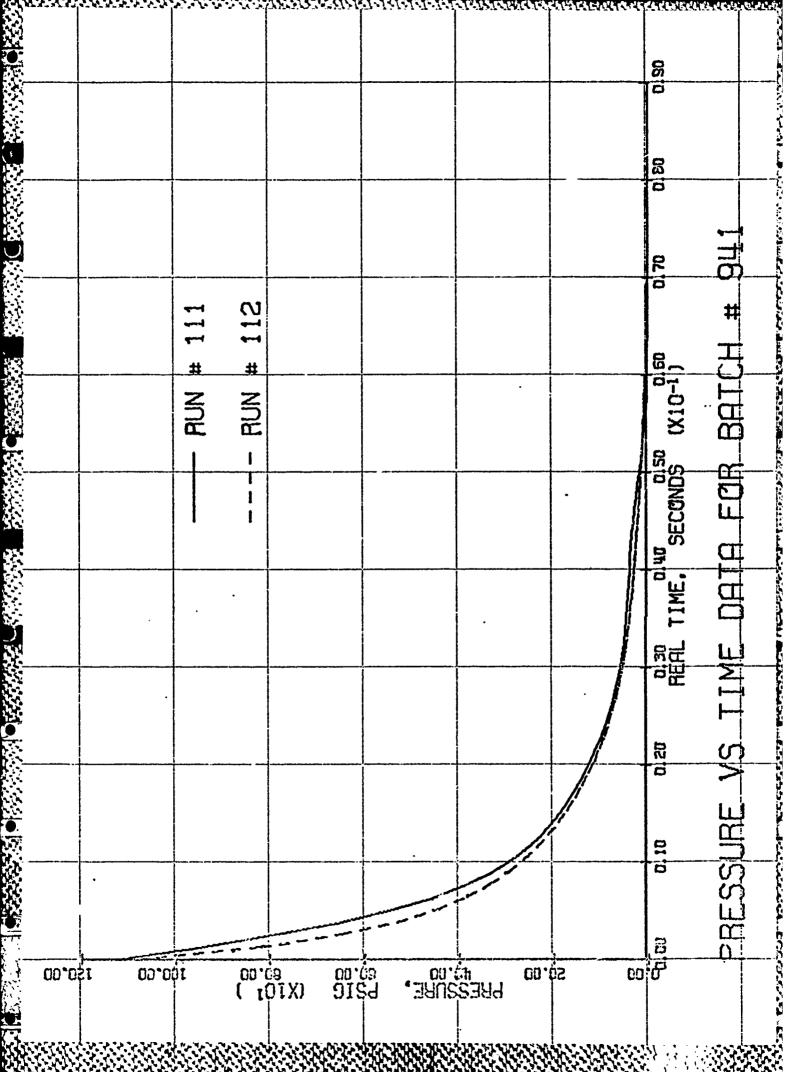
BATCH = 941 / 50.0% AP. 20.0% PEAA

```
DATA FROM RUN # 109
                                         T=(TIME#RPEF##2)/ALPHA
                              LN(P)=A +6*1 +C*T**2 +0*T**3 +E*T**4
   TIME
                   LM(P)
                                           +F*T**5 +G*T**6 +H*T**7
 0.0
         393.0
                  0.0
                           A= 0.1182944227-01
                                               E= 0.7057370030-02
 0.0023
         615.0
                 -0.3596
                           B=-0.735372855) 00 F=-0.5257133720-03
 0.0073
         360.0
                 -0.9051
                           C= 0.2165303700 00 G= 0.2003378360-04
 0.0123
         245.0
                 -1.2300
                           D=-0.5206190230-01
                                                H=-0.305935334D-06
 0.0173
         175.0
                 -1.5254
 0.0223
         125.0
                 -1.9529
                                   TI:'=
                                                   F#(5) .
 0.0323
          72.3
                 -2.5140
                                0.0007
                                         3)4.9
                                                -0.1005
 0.0.23
          45.0
                 -2.9246
                                10.0013
                                         712.0
                                                -0.2231
 0.0523
          30.0
                 -3.3900
                                0.0013
                                         542.3
                                                -0.3251
 0.0723
          20.0
                 -3.7955
                                 0.0026
                                         530.4
                                                -0.4274
CIL # BUR MURA ATAC
                                         T=(T1ME#RREF##2)/ALPH4
                             LH(P)=4 +84T +C4T442 +04T443 +64T444
   TIME
                   LY(P)
                                           +F*T**5 +G*T**6 +H*T**7
 0.0
        1055.0
                  0.0
                           A= 0.5521439870-02
                                                E= 0.6638226490-02
 0.0033
         535.0
                 -0.5790
                           B=-0.8357331945 00 F=-0.4232319200-03
 0.0033
         345.0
                 -1.1173
                           C= 0.2525055727 00
                                                G= 0.1401965640-04
 0.0133
         245.0
                 -1.4500
                           D=-0.5543138730-01
                                                H=-0.182563877D-06
 0.0183
         172.0
                 -1.3138
 0.0233
         125.0
                 -2.1330
                                   TIME
                                           P
                                                  L'1(2)
 0.0283
          93.C
                 -2.4287
                                0.0538
                                          30.0
                                                -3.5501
 0.0339
          75.0
                 -2.5438
                                0.0688
                                          24.0
                                                -3.7332
          160.0
 0.0338
                 -2.8670
                                0.0723
                                          20.0
                                                -3.9556
          43.0
 0.0433
                 -3.2001
                                0.0023
                                         705.4
                                                -0.4011
DATA FROM RUN # 111
                                         T=(TIME#RREF##2)/ALPHA
                             LN(P)=4 +8=T +C#T##2 +0#T##3 +E#T##4
   TIME
                   LN(P)
                                           +F#T##5 +G#T##6 +H#T##7
        1077.3
 0.0
                           A= 0.460507991 )-01. Γ=-0.1907324840-01
                  0.0
 0.0010 1010.0
                 -0.0577
                           2=-0.4365404020 00 F= 0.1996542920-02
 0.0060
         460.0
                -0.3442
                           0.0110
         272.0
                -1.3556
                           D= 0.3900970227-01 .H= 0.1943316010-05
 0.0160
         175.0
                 -1.3105
         112.0
 0.0210
                -2.2559
                                  T1 45
                                           ø
                                                  [4(5)
 0.0310
          55.0
                -2.7681
                                0.0004 1054.5
                                                -0.0143
 0.0410
          37.0
                 -3.3645
                                0.0013
                                        913.2
                                                -0.1530
 0.0510
          15.7
                 -4.2574
                                0.0024
                                         R19.1
                                                -0.2585
 0.0410
           5.0
                 -5.3660
                                0.1037
                                         529.9
                                                -0.5299
DATA FROM NJ', # 112
                                         T= [TIME=RMMFF**2]/ALPHA
                             L.(P)=A +3*T +C*T**2 +D*T**3 +F*T**4
   11:::
           C
                  [4(2)
                                           +F # | ## 45 + 3# 1 ## 5
 0.0
        1045.0
                 0.0
                           A= 0.1522463050-01
                                                E= 0.4199270500-02
 0.0376
         645.0
                -3.3015
                           "=- % 163 1925 130 0: F=-0.2053350450-03
 0.0074
         340.0
                -1.1412
                           C= 0.2156513390 00
                                                G= 0.3950709360-05
 0.0126
         215.3
                -1.5001
                           F=-0.4150743030-01
 3.317,
         142.3
                -2.0149
          95.0
 0.0226
                -2.4109
                                  TIG
                                           Ģ
                                                  LI(P)
 0.0424
          25.3
                -5.7519
                                0.0014
                                         750.3
                                                -9.2962
 0.0025
           5. 7
                -5.3/13
                                3.0027
                                         635.9
                                                -3.515%
 0.0003
         217.5
                -0.1470
                                0.0033
                                       513.3
```

では、一般のでは、これには、一般のなどなどにはなって、そのなどは、一般の情報を表現の情報を表現を表現していません。

LERENDER DE LE LES DE L





```
DATA FROM RUN # 113
                                        T=(TIME*RREF**2)/ALPHA
                             LN(P)=A +B*[ +C*T**2 +D*T**3 +E*T**4
    TIME
            P
                   FA(b)
                                           +F*T**5 +G*T**6 +H*T**7
  0.0
          300.0
                           A=-0.1243509510-01 F= 0.1055726140-01
B=-0.7942936990 00 F=-0.112549676D-02
                  0.0
  0.0033
          440.0
                 -2.5978
  0.0083
          240.0
                           C= 0.193616235.) 00 G= 0.5975080580-04
                 -1.2949
  0.0133
          130.0
                 -1.8171
                           D=-0.5540751530-01 H=-0.1231202290-05
  0.0133
                 -2.0704
          100.0
  0.3233
           55.9
                 -2.5102
                                          Ρ
                                  TIME
                                                 LN(P)
  0.0283
           47.0
                 -2.9345
                                0.0433
                                          3.0
                                              -4.6052
  0.0333
           32.0
                 -3.2139
                                0.0533
                                          5.0
                                               -5.3752
  0.0383
           2).0
                 -3.5569
                               .0.0011
                                        627.5
                                               -0.2429
  0.0433
           12.0
                 -4.1397
                                0.0017
                                        549.0
                                              -0.3765
 DATA FROM RUN # 114
                                        T=[TIME#RREF##2]/ALPHA
                             EN(P)=A +3*T +C*T**? +0*T**3 +E*T**4
    TIME
            Р
                   LM(P)
                                          +F*T**5 +G*T**6 +H*T**7
  0.0
          870.0
                  0.0
                           1= 0.4979693640-02 E= 0.6456361600-02
  0.0031
                           R=-0.715104159) 00 F=-0.459332613D-03
         540.0
                -0.4769
  1600.0
         323.0
                           C= 3.2048950419 00 G= 3.1654467909-04
                 -0.9755
  0.0131
                           P=-0.4831931330-01 H=-0.2366324270-06
         225.0
                -1.3524
  1510.0
         160.0
                -1.5933
  0.0231
         115.0
                -2.0236
                                          ρ̈́
                                  TIME
                                                 LN(P)
  0.0331
         63.0
                 -2.5490
                                0.0731
                                         20.0
                                              -3.7728
  0.0431
          43.0
                -2.3973
                                0.0011
                                        714.6
                                               -0.1967
  0.0531
                 -2.2720
           33.0
                                0.0017
                                        652.5
                                               -0.2877
  0.0531
         - 25.0
                 -3.5104
                                0.0030
                                        543.3
                                               -0.4790
.DATA FROM RUN # 115
                                        T=(TIME#RREF##2)/ALPHA
                             LN(P)=A +8*T +C*T**2 +D*T**3 +F*T**4
    TIME
           Ď.
                  LN(P)
                                          +F*T**5 +G*T**6 +H*T**7
 0.0
         495.0
                  2.7
                           A= 0.2453192840-01 E= 0.8354124670-02
                          8=-0.7111533070 00 3=-0.5932435590-03
         365.0
 0.0021
                 -0.3047
 0.9971
         220.0
                 -0.3109
                           C= 0.231641870D 00 G= 0.272716469D-04
 0.0121
         155.)
                -1.1511
                           D=-0.5083983940-01 H=-0.4228248220-05
 0.0171
        110.0
                -1.5041
 0.0271
          65. T
                -2.0302
                                  TINE
                                          P
                                                LN(D)
 9.0371
          45.1
                -2.3973
                                0.0009 437.2 -0.1241
 0.0471
          37.0
                -2.3034
                                0.0016
                                        395.0
                                              -9.2231
 0.0671
          20.0
                -3.2033
                                0.0025
                                        321.7
                                               -0.4303
 0.0003
         481.9
                -0.0270
                                0.0041
                                        230.5
                                               -0.5530
OMA FROSERUS : 115
                                        T=(TI"F*RFEF##2)/ALPHY
                             LN(P)=A +3#T +C#T##2 +9#T##3 +F#F##4
   TIME
                 1. ((2)
                                          +5*T**5 +3*T**6 +11*T**7
 0.0
        1140.0
                 7.7
                          0.0003 1000.0
                          B=-0.7194133870 00 F=-0.4941574340-03
                -0.0449
                          9.0053
        543.0
                - 1.7472
 3.3193
         3.7.)
                -1.2397
                          0=-0.4671246460-01 H=-0.2334166990-06
 0.0153
        213.0
                -1.5641
 9.0253
         115.0
                -2.2939
                                  1147
                                         i,
                                                [.]{2}
 0.3353
                -2.5931
         35.)
                               2.0007 1019.2
                                               -9.1129
 0.3453
                -2.3644
          55.7
                               0.7014
                                       373.4
                                               -0.2732
 0.7653
          42.1
                -2.3311
                               0.0020
                                        330.3
                                               -0.3533
 0.1053
          25.7
                -3.5199
                                      677.5
                                               -0.5175
```

	RUN # 113	RUN # 114					TIME, SECONDS (X10-1)	URE VS TIME DATA FOR BATCH # 941
	4-4						3 20	CH
	JE N	HUN NOR					CX10-	BAT
	.	1 1 1 1 1 1 1 1 1 1					CONDS	FOR
				*			0 40 SE	H ·
							1 .	E DB
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	erere reve		13741314				iere e este e est.				SATES AND
	 		-		 					8	
\$ 5.55 E								·			10.000
										DB	
				· 						07.0	941
			13	116						0	#
336			#	#						8_	H
		·	S S	S S					1	(X10-1)	BATC
									- 11	S S	-CC
				1					- :	IME, SECONDS	FOR
	·					-			- 1	9	
				•							E DA
										REAL REAL	TIM
				—					//	02 02	2
										10	JRF
	-	•				-				Ö	RESSURE
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	au uc	t .00°08		(10	ix) S	PSI ep.oa	o.oo ssure,	9389 9389	න ග	ro	
											AN SOLL

DATA FRO	" RU" #	117	·	#E#RREF##2]/ALPHA
			LN(P)=A +P*T +C*	T**2 +D*T**3 +E*T**4
TIME	•	EN(P)	· +F*	1**5 +3*T**6
0.0	792.0	0.0	A=-0.3192772630-02	5= 0.3350814110-02
0.0004	745.0	-0.0612	B=-0.5890866580 JO	F=-0.185761432D-03
0.0013	600.0	-0.2776		G= 0.334561793D-05
0.0054	415.0	-0.6463	D=-0.2895168770-01	
0.0084	320.7	-0.4062		
0.0104	275.7	-1.0578	TIME P	LM(P)
0.0154	192.0	-1.4171	0.0304 32.0	
0.0204	149.7	-1.7329	0.0404 55.0	-2.6672
0.0254	105.0	-2.7206	0.0704 40.0	-2.9357
DATA FRO	4 304 #	113		YE#RREF##2]/ALPHA
			LN(P)=A +3*T +C*	T**2 +D*T**3 +F*T**4
TIVE	5	[//(5)	LN(P)=A +3*T +C* +F*	T**2 +D*T**3 +F*T**4 T**5 +G*T**6
0.0 TI'E	555.0		LN(P)=A +3*T +C* +F* A= 0.2775750340-01	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02
TI 7E 0.0 0.0041	555.0 340.0	[//(5)	LN(P)=A +3*T +C* +F* A= 0.2775750340-01	T**2 +D*T**3 +F*T**4 T**5 +G*T**6
TIVE 0.0 0.0041 0.0091	555.0 340.0 230.0	LN(P) 0.0 -0.4900 -2.3809	LN(P)=A +3*T +C* +F* A= 0.2776769349-01 B=-0.6087050740 00	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02
TI 7E 0.0 0.0041	555.0 340.0	LN(P) 0.0 -0.4900	LN(P)=A +3*T +C* +F* A= 0.2776769349-01 B=-0.6087050740 00	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02 F=-0.2433232150-03 G= 0.5112395940-05
TIVE 0.0 0.0041 0.0091	555.0 340.0 230.0	LN(P) 0.0 -0.4900 -2.3809	LN(P)=A +3*T +C* +F* A= 0.2776760340-01 B=-0.6037050740 00 C= 0.1660895670 00	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02 F=-0.2433232150-03 G= 0.5112395940-05
TIVE 0.0 0.0041 0.0091 0.0141	555.0 340.0 230.0 170.0	LN(P) 0.0 -0.4900 -0.3809 -1.1332	LN(P)=A +3*T +C* +F* A= 0.2776760340-01 B=-0.6037050740 00 C= 0.1660895670 00	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02 F=-0.2433232150-03 G= 0.5112395940-05
TIVE 0.0 0.0041 0.0041 0.0141 0.0191	555.0 340.0 230.0 170.0 125.0	LN(P) 0.0 -0.4900 -0.3809 -1.1832 -1.4907	LN(P)=A +3*T +C* +F* A= 0.2775750349-01 B=-0.6037050740 00 C= 0.1660895670 00 D=-0.3680200890-01	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02 F=-0.2433232150-03 G= 0.5112395940-05
TIVE 0.0 0.0041 0.0091 0.0141 0.0191 0.0291	555.0 340.0 230.0 170.0 125.0 73.0	LN(P) 0.0 -0.4900 -0.3809 -1.1832 -1.4907 -1.9623	LN(P)=A +3*T +C* +F* A= 0.277676034D-01 B=-0.6037050740 00 C= 0.1660895670 00 D=-0.3680200890-01	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02 F=-0.2433232150-03 G= 0.5112395940-05 LN(P) -0.1252
TIVE 0.0 0.0041 0.0091 0.0141 0.0191 0.0291 0.0391	555.0 340.0 230.0 170.0 125.0 73.0 55.0	LN(P) 0.0 -0.4900 -0.3809 -1.1832 -1.4907 -1.9623 -2.3116	LN(P)=A +3*T +C* +F* A= 0.2776769349-01 B=-0.6087950740 00 C= 0.1660895670 00 D=-0.3650200890-01 TIME P 0.0011 439.7	T**2 +D*T**3 +E*T**4 T**5 +G*T**6 E= 0.4324980410-02 F=-0.2433232150-03 G= 0.5112395940-05 LN(P) -0.1252 -0.3075

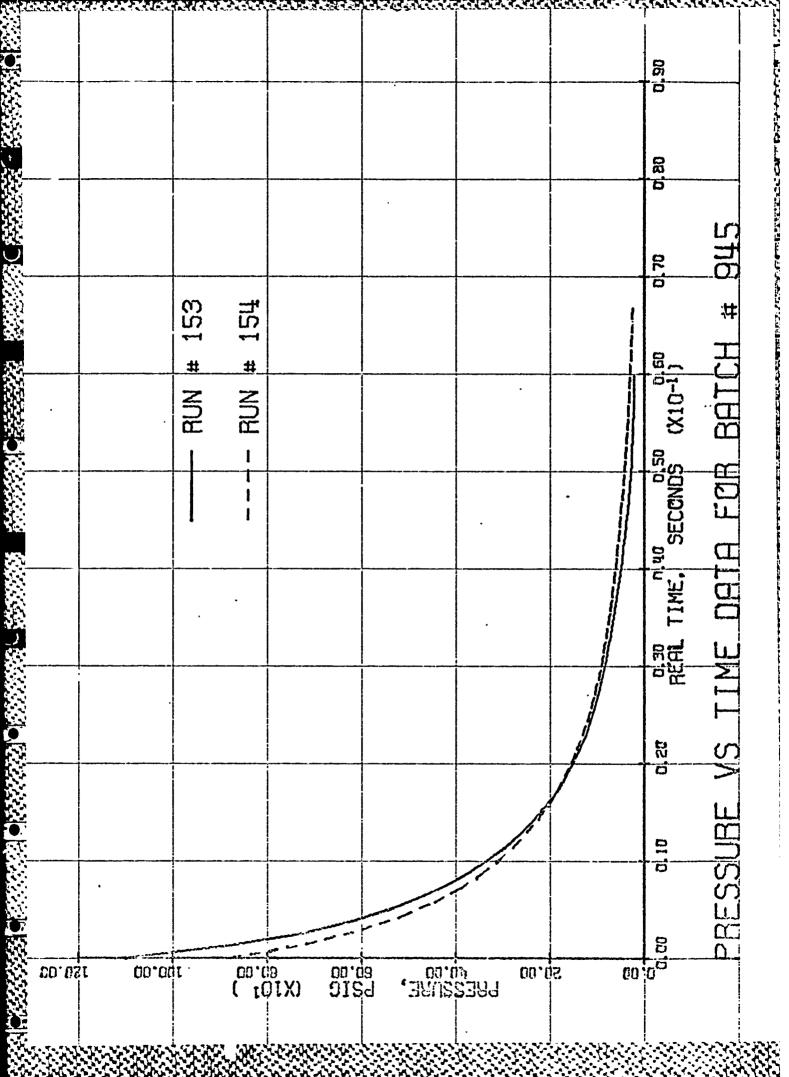
t 00°60t		RUN # 117		
iot.		# #		
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00.0				ereceta
SIX)				T.G
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PRESSURE	VS TIME DATE	A FOR BATCH #	941	
				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

```
DATA FROM RUN # 148
                                       T=(TIME*RREF**2)/ALPHA
                            LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
           Р
   TIME
                                         +F#T##5 +G#T##6 +H#T##7
                  LM(P)
 0.0
                 0.0
         350.0
                          A = 0.1450569050-01
                                             E=-0.834642440D-02
 0.0018
         670.0
                -0.2497
                          8=-0.8251632360 00
                                             F= 0.2220253830-02
 8 200 • 0
         370.0
                -0.8434
                          C = 0.1600727330 00 G = -0.2143121480 - 03
 0.0113
         233.0
                -1.2847
                          D=-0.835622552D-02
                                             H= 0.7230519820-05
 0.0168
         165.0
                -1.6510
 0.0213
         115.0
                -2.0120
                                 TIME
                                                LN(P)
 0.0258
          25.7
                -2.3143
                               0.0009
                                       774.3
                                             -0.1044
 0.0318
          65.0
                -2.5825
                               0.0015
                                       697.3
                                              -0.2097
 0.9418
          40.0
                -3.1681
                               1500.0
                                       519.8
                                              -0.3275
 0.0513
          25.0
                -3.53°
                               0.0034
                                       526.8
                                             -0.4900
DATA FROM RUN # 149
                                       T=(TIME#RREF##2)/ALPHA
                            LN(P)=A +8+T +C+T++2 +D+T++3 +E+T++4
   TIME
                  LV(P)
                                         +F*T**5 +G*T**6 +H*T**7
 0.0
         760.0
                 0.0
                          0.0039
         495.7
                -0.4233
                          R=-0.6340123610 90 F=-0.9717196300-04
 0.0083
         335.0
                -0.8192
                          C= 0.1294095760 00 G= 0.2659946150-05
 0.0137
         255.0
                -1.0921
                          0 = -0.1987049319 - 01
                                             H=-0.2936757540-07
 0.0189
         205.0
                -1.3103
 0.0239
         170.0
                -1.4975
                                 TIME
                                         ρ
                                                LN(P)
 0.0239
         145.0
                -1.5565
                               0.0589
                                        75.0
                                             -2.3158
 0.0339
         125.0
                -1.3050
                                        60.0
                               0.0789
                                              -2.5390
 0.0339
         113.3
                -1.9323
                               0.0989
                                        50.0
                                              -2.7213
 0.0439
          90.0
                -2.1335
                               0.1239
                                        40.0
                                             -2.9444
DATA FRO4 RUN # 150
                                       T=(TIME*PREF**2)/ALPHA
                            LN(P)=4 +8#T +0#T##2 +0#T##3 +8#T##4
           .
   TIME
                  FA(5)
                                         +F#T##5 +3#T##6 +H#T##7
       733.9
 0.0
                 0.0
                          A=-0.6030523640-02 E=-0.1073635250-01
 0.0005
        69). ٦
                          8=-0.4718636330 00 F= 0.1105621979-02
                -0.0673
 0.0054
         415.0
               -0.5757
                          0.0106
         26).)
                -1.0433
                          D= 0.523704002D-01
                                             H= 0.1196349360-05
         175.0
 0.0155
                -1.4342
 0.0216
        130.0
                -1.7364
                                 7145
                                         P
                                                LN(P)
 0.0255
        102.0
                               0.0556
                -1.9790
                                        40.0
                                              -2.9151
 0.0315
          35.0
                -2.1513
                               0.0653
                                       35.0
                                              -3.0486
 0.0355
          70,0
                -2.3554
                                       537.9
                               0.0014
                                              -0.1457
 0.0456
          52.0
                -2.4527
                               0.0026
                                       552.9
                                              -0.2709
SATA FRE PULL # 151
                                       T=(TI 45%4356%42)/ALPHA
                            L'1(P)=4 +3#T +C#T##2 +0#T##3 +E#F##4
   11.45
                 [4(D)
                                         +F*T**5 +3*T**6 +H*T**7
 0.0
         375.7
                 ).)
                          0.0004
         640.0
                -0.0532
                          E=-0.6342731970 00 F=-0.2134494530-03
         355.7
 0.0054
                -0.5515
                          C= 0.1332753820 00
                                             3= 0.7861965439-05
         275. 1
 0.0104
                -2.3479
                          n=-0.2639514390-01
                                             d=-0.1144558500-06
         205.0
 0.0154
                -1.1317
         155.0
 3.3204
                -1.4130
                                 11"5
                                               f A(5)
                -1.5319
.0.0254
         132.0
                               0.0554
                                        62.0
                                              -2.3376
         115.3
 0.0304
                -1.7500
                               9.0554 + 53.0
                                              -2.5444
 0.0354
                -1.3409
         75.)
                               0.0754
                                        47.5
                                              -2.5546
 0.0434
          75.2
                -2.1972
                               0.0054
                                              -2.8253
```

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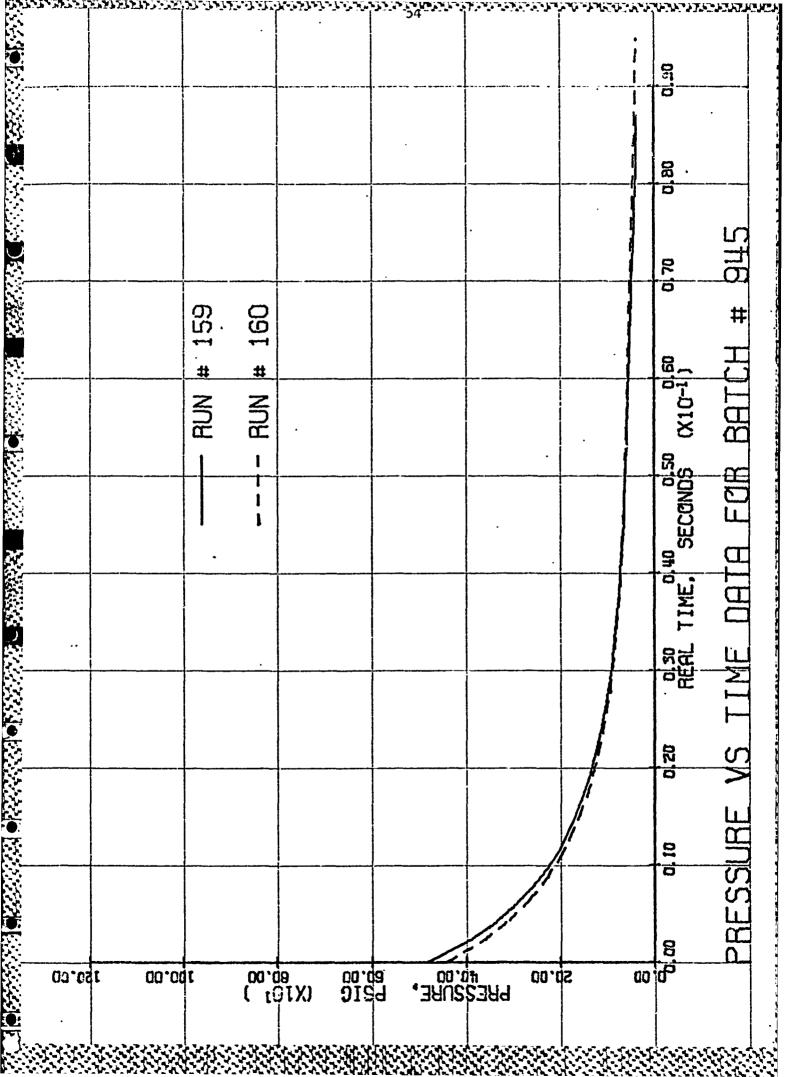
```
DATA FRU4 RUN 5 153
                                        T=(TIME#RREF##2)/ALPHA
                             L'1(P)=A +8#T. +C#T##2 +D#T##3 +E#T##4
   TIME
           Ð
                   LV(P)
                                           +F#T##5 +G#T##6 +H#T##7
 0.0
        1035.0
                  0.0
                           A= 0.1150997550-01
                                                E= 0.2900660860-01
 0.0023
         742.9
                 -0.3719
                           B=-0.9698072097 00
                                              F=-0.334492860D-02
 0.0073
         425.0
                 -0.9372
                           C = 0.3543180900 00 G = 0.1934531090-03
 0.0123
         270.0
                 -1.3909
                           D=-0.1355573737 00 H=-0.4372564540-05
 0.0172
         135.0
                 -1.7690
 0.0223
         127.0
                 -2.1451
                                  IIME
                                                  LN(P)
 0.0273
          25.0
                -2.4355
                                0.0523
                                         25.0
                                               -3.7795
 0.0323
          72.0
                 -2.7127
                                0.0623
                                         20.0
                                                -3.9936
 0.0373
          53.7
                 -2.9239
                               .0.0011
                                                -0.1583
                                       925.7
 0.0423
          42.0
                -3.2517
                                0.0029
                                       682.9
                                               -0.4530
DATA FROM RUN # 154
                                        T=(TI4E*RREFF**2)/ALPHA
                             LN(P)=A :3*T +C*T**2 +D*T**3 +E*T**4
   TIME
           כ
                  EN(P)
                                          +F*T**5 +G*T**6 +H*T**7
                           A= 0.6414356100-02
 0.0
         863.0
                 0.0
                                              E= 0.1014425100-01
 0.0050
         430.0
                -0.5924
                           B=-0.7569639940 00 F=-0.9995730230-03
 0.0100
         305.0
                -1.0459
                           C = 0.1985347839 00 G = 0.501961042D - 04
 0.015)
         215.0
                -1.3956
                           7=-0.5693266537-01
                                               H=-0.1002862050-05
 0.0200
         155.0
                -1.7228
 0.0250
         115.0
                -2.0213
                                          Р
                                  TIME
                                                 LH(P)
 0.0300
          90.0
                -2.2664
                                0.0600
                                         30.0
                                               -3.3650
 0.0350
          75.0
                -2.4437
                                0.0700
                                         22.0
                                               -3.67F1
 0.0400
          40.0
                -2.5718
                                0.0009
                                        774.2
                                               -0.1144
 0.0500
        • 42.7
                -3.0285
                                0.0022
                                        541.2
                                               -0.3028
DATA FROM RIN # 155
                                        T=(TIME#RPEF##2)/ALPHA
                             LH(P)=A +B*T +C*T**2 +9*T**3 +E*T**4
   TIME
           P
                  LY(P)
                                          +F#T##5 +G#T##6 +H#T##7
                ່ ງ.ງ
 0.0
         555.0
                           A=-0.254359614P 02 E= 0.195696005D-02
 0.0013
         57).9
               -0.1390
                           9=-0.523053269) 00  F=-0.1173133070-03
                -0.4444
 0.0050
         420.0
                           C= 0.3919840537-01 G= 0.3220925900-05
 0.0053
         373.0
                -0.5497
                           D=-0.1687103399-01 H=-0.2993430330-07
 0.0113
         270.0
                -0.3362
 0.0143
                -1.1616
         205.0
                                          Þ
                                  TIME
                                                 LN(P)
 0.0213
         150.0
                -1.4035
                                0.0463
                                         68.0
                                               -2.2651
 0.7253
         127.0
                                0.0543
                -1.5404
                                         59.3
                                               -2.4071
         102.0
 0. 313
                -1.3597
                                0.0763
                                         45.9
                                               -2.6730
 0.0363
          33.7
                -2.3073
                                0.0953
                                               -2.7953
                                         40.0
DATA FIRM FUN + 155
                                        T=(TIME#FREF##2)/OLPHA
                            La(P)=A +2#T +0#T##2 +0#T##3 +E#T##4
   TIVE
                  F.'(3)
                                          +F#T##5 +G#T##6 +H#T##7
0.0
                           7.0.0
                 0.1
0.0033
         51).?
                -4.3320
                          F=-0.53721211+1 00 F=-0.2404171610-03
                          C= 0.1173,39537 CO G= 0.9475442760-05
 0.0033
         342.0
                -0.7710
0.0133
         251.0
                -1. 1772
                          [=-3.2393575550-01 H=-0.1479632830-05
 0.0103
        103.0
                -1.9337
 0.0033
         150.5
                                  71 .-
                -1.5.32
                                          ,
                                                 (°;(°)
0.0238
         125.3
                -1.7733
                               0.0533
                                         55.7
                                               -2.43?5
0.0333
         10%
                -1.9245
                                3.3533
                                         55.7
                                               -2.5093
0.0383
          22.3
                -2.3217
                                1.0731
                                         50.0
                                               -2.5743
0.0133
                -7.7245
          30.3
                                0.0135
                                         45.7
```



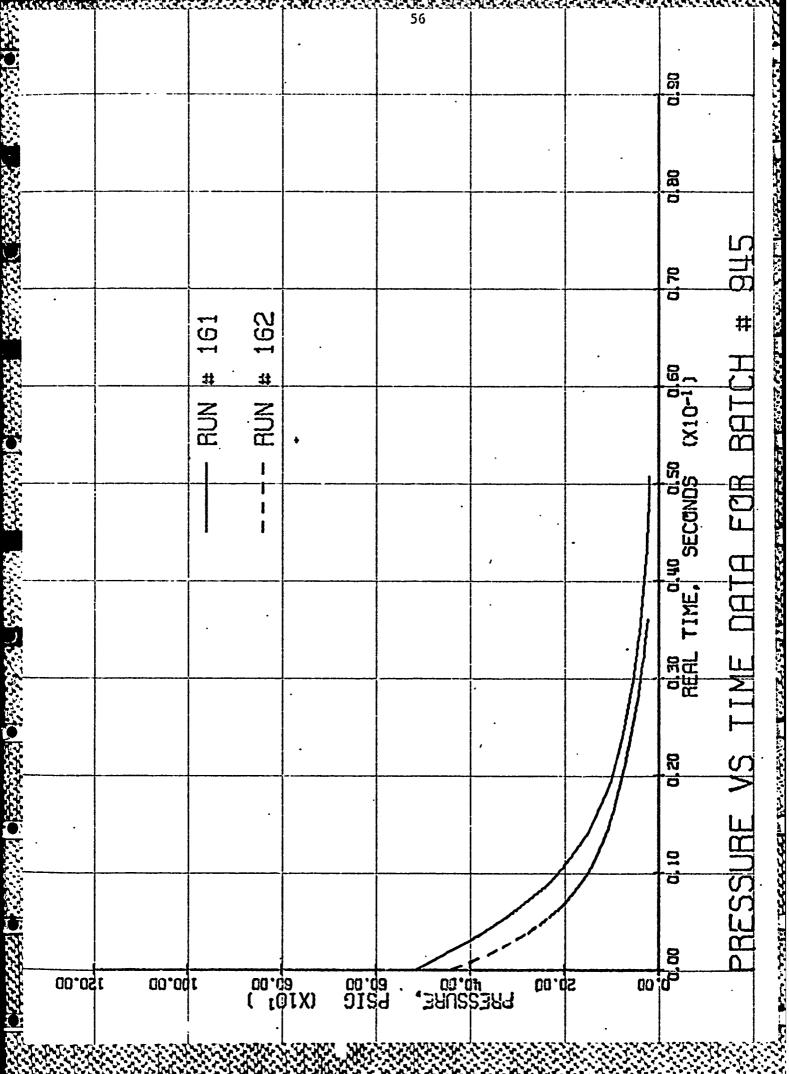
PRESSURE VS TIME DATA FOR BATCH # 945
155
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(a) 1.10 0.20 0.10 E. Y.S. T.I.ME DRIR FOR BRICH # 945
(a) 1.10 0.20 0.10 E. Y.S. T.I.ME DRIR FOR BRICH # 945
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(a) 10 0.20 0.30 (x10 ⁻¹) PRESSURE VS TIME DATA FOR BATCH #
(a) 10 0.20 0.30 (x10 ⁻¹) PRESSURE VS TIME DATA FOR BATCH #
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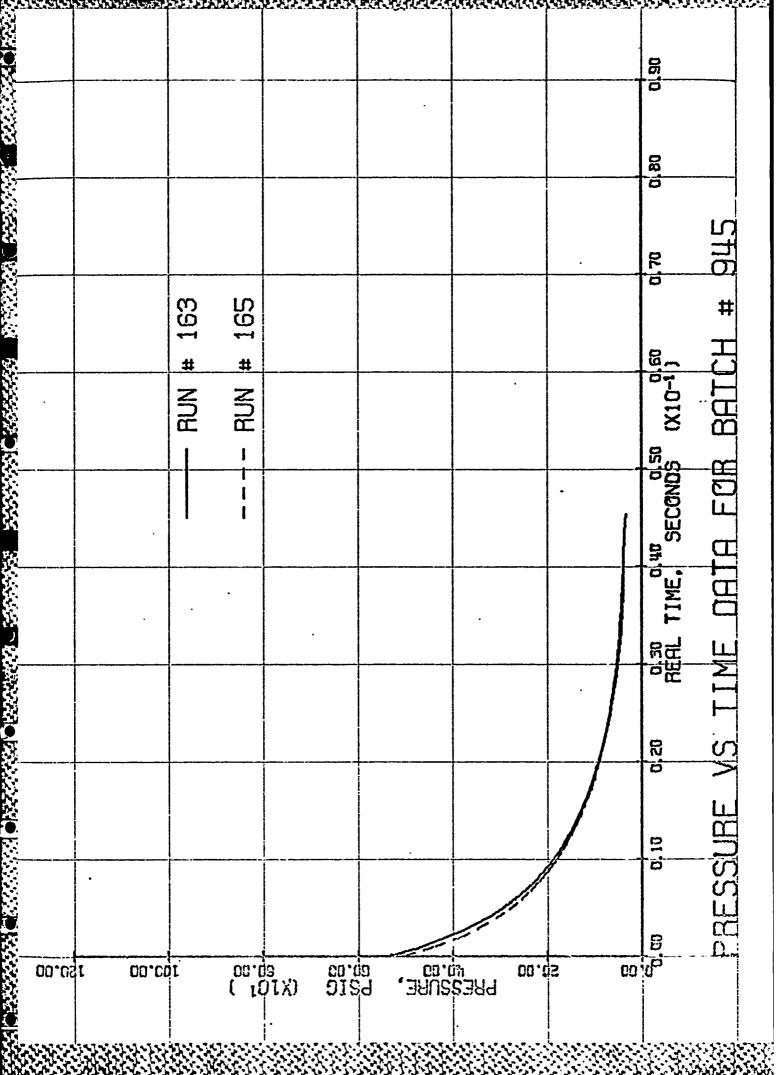
```
DATA FROM RUN = 157
                                        T=(TIME*RREF**2)/ALPHA
                             EN(P)=A +3*T +C*T**2 +0*T**3 +F*T**4
   TIME
           ⊃
                  [ 11 ( 9 )
                                          +F*T**5 +G*T**6 +H*T**7
 0.0
         615.0
                 0.0
                           A = 0.2334404319-01 5 = 0.4493110839-01
 0.0005
         595.9
                -0.3331
                          B=-0.9123448800 00 F=-0.5940140950-02
 0.0055
         320.0
                           C= 0.4207143537 00 G= 0.398049909D-03
                -0.6533
 0.0105
         210.0
                -1.0745
                           D=-0.1339337320 00 H=-0.1059335413-04
 0.0155
         142.0
                -1.4453
 0.0205
         100.0
                -1.3165
                                         ₽
                                  TIME
                                                LN(P)
 0.0255
         75.)
                -2.1041
                                0.0555
                                         20.0
                                               -3.4259
 0.0305
          58.0
                -2.3612
                                0.0019
                                        471.2
                                               -0.2653
 0.0355
         45.7
                -2.5150
                                0.0031
                                        399.4
                                               -0.4318
 0.0455
         30.0
               -3.7204
                                0.0044
                                       351.4
                                               -0.5596
DATA F204 RUN = 153
                                        T=(TIME#RREF##2)/ALPHA
                             LN(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TIME
          2
                  LY(P)
                                          +F#T##5 +S#T##6 +H#T##7
 9.0
         532.0
                 3.3
                          \Delta = 0.1344047240-02 E= 0.2281203790-01
 2.3933
         335.0
                -0.+025
                          5=-0.7323047240 00 F=-0.283435334D-02
                          C= 0.2003621260 00 G= 0.1756066470-03
 0.0033
         203.3
                -0.0391
 0.0133
         145.0
                -1.2999
                          0=-0.7715613907-01 H=-0.4249130267-05
 0.0183
         100.0
                -1.5715
 0.0233
         80.0
                -1.3945
                                  TIME
                                         Ρ
                                                 LN(P)
 J. 0283
         52.0
                -2.1495
                                0.0583
                                        20.0
                                               -3.2309
 0.0333
         57.0
                                0.0009 467.5
                -2.3345
                                              -0.1292
 0.0339
         43.3
                -2.5873
                                0.0022
                                       390.1
                                               -0.3102
 0.0433
          25.7
                -3.0573
                                0.0034
                                      338.5
                                               -0.4520
04T1 FROM FUN # 159
                                        T={TIME#PREF##2}/ALPHA
                            LN(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TIME
                  [1(a)
                                          +F*T**5 +G*T**6
 0.0
         485.0
                 0.0
                          A=-0.7859359830-0? E= 0.9477331680-03
 0.0025
         372.0
                -0.2053
                          B=-0.4905331230 00 F=-0.5029011976-04
 0.0076
         265.0
                -0.5044
                          C = 0.5796934979 - 01 G = 0.1014474639 - 05
 0.0124
         183.0
                -0.9477
                          0=-0.9329679940-0?
 0.0174
        147.7
                -1.1937
 0.0225
         120.
                                  TIVE
                -1.3957
                                                FA(5)
 0.0274
         93.5
                -1.5992
                               0.0525
                                        57.9
                                               -2.1755
         35.0
 0.0325
                -1.7415
                               0.0726
                                        45.0
                                               -2.3775
 0.0426
         67.)
                -1.9545
                               0.3925
                                         40.0
                                               -2.4953
041A FROM RUN - 140
                                        T=(TIKE#RREF##2)/ALPHA
                            L'I(P)=A +577 +C*T**2 +7*T**3 +F*T**4
   TIVE
                 L':(2)
                                          #F%T%45 +G#T##6 +H#T##7
         442 . .
 0.0
                 7.3
                          A=- 0.44 03495440-02 F= 0.7614052370-03
 0.0023
         35).)
                -0.2052
                          R=-J.+575157600 00 R=-0.508682576J-04
 2.0050
         275.5
                          C= 4.5417334530-01 G= 0.1662725640-05
                - 1.4745
                          0.0105
         215.0
                -0.7323
         107.0
 0.0155
                -1.1:1
 J. 12 , 5
        115.3
                -1.2444
                                 11:1
                                         )
                                                [. !(P)
0.0255
         105.0
                -1.1274
                                0.0455
                                        55.0
                                              -1.9169
0.0303
         33.)
                -1.5140
                               0.0555
                                        59.7
                                               -2.0133
 0.935 /
          75. . .
                                1.0754
                -1.7345
                                        49.0
                                               -2.2201
 0.9405
          7 ...
                -1.6424
                               J.1750
                                         40.0
                                               -2.4024
```

				898-8888			Sent Recepted	%C.		
00.03	. •				•			-		
00°0;					•	-		·		
						- RUN	# 157			
07 (0	-				l l	- RUN	# 158			
is (X)										
01°C									•	
9 d								•		- -
end SNUE				_						
SER4										
00.0				<u>.</u>						
Z										
00										• •
	30	10	0.20	DI 30 DI 40 REAL TIME,	SECONDS	50 (X10-1)		0, 70	DE 10	06 13
	PRESSUR	H H	11 S	VE DA	TH FOR	3 BATI	# 	945		
	17 - 12 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		and the second s	والمهاري أناه أتاعة أبيا فبأوافا			איאי אישי ביי משל איאל		e e e e e e e e e e e e e e e e e e e	

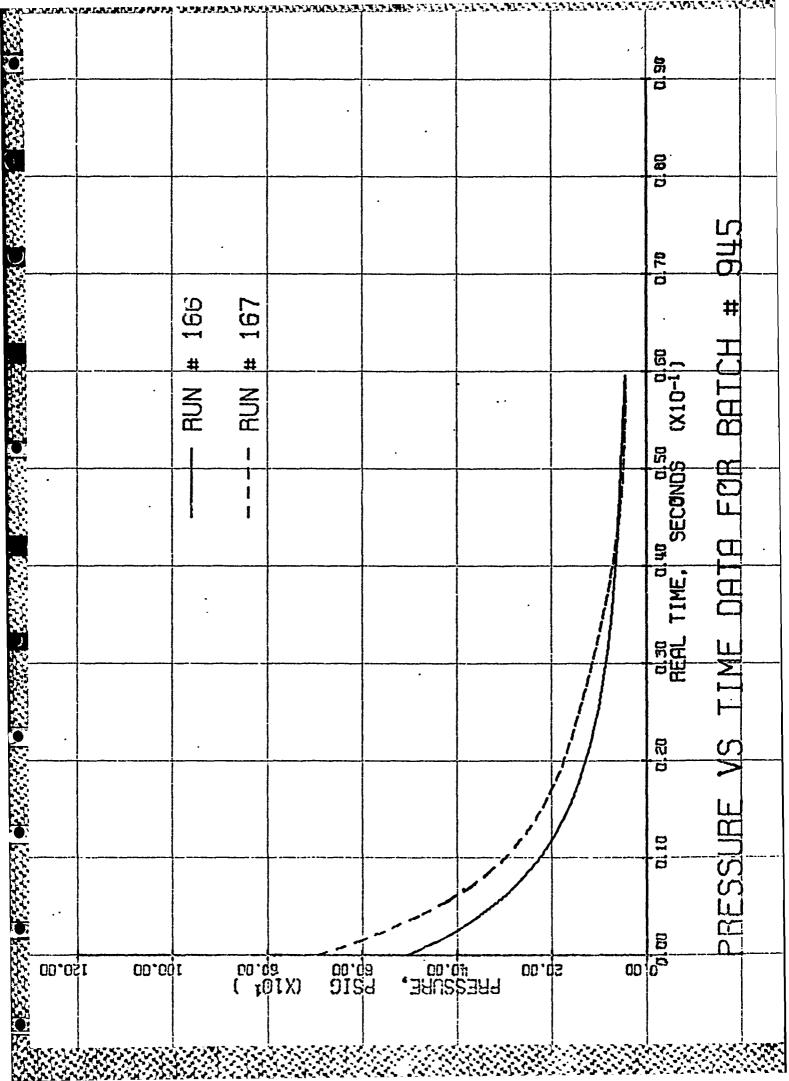


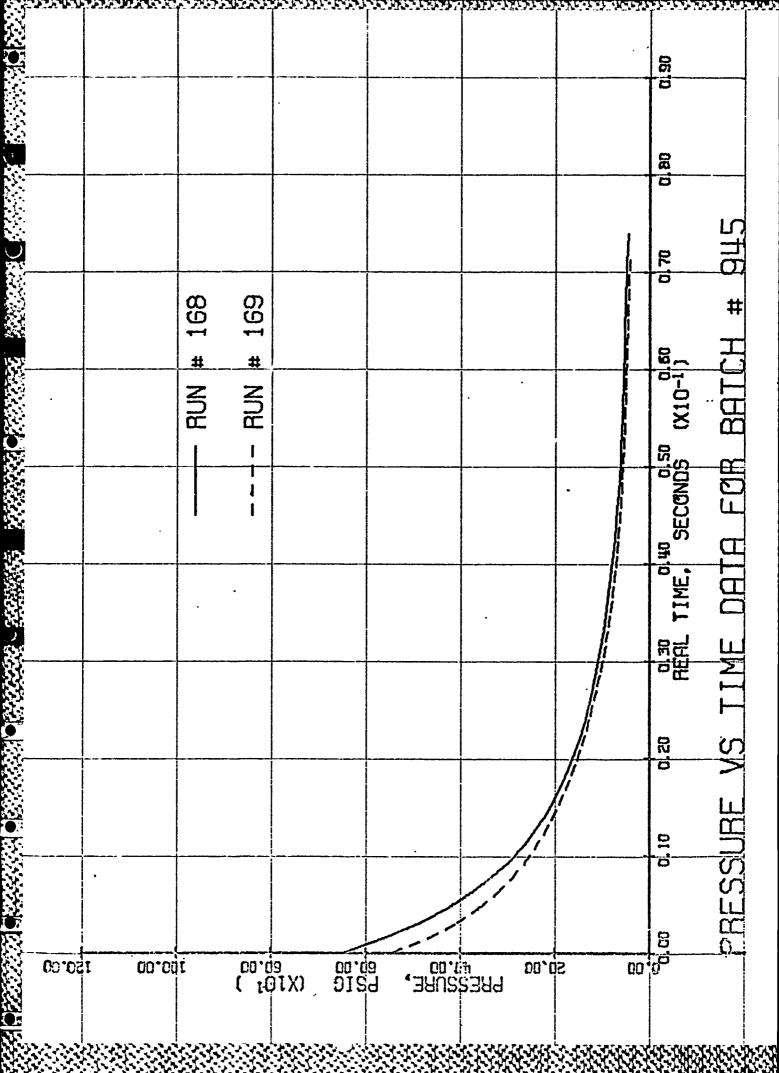
```
DATA FROM RUN + 151
                                       T=(TIME#RRFF##2)/ALPHA
                            LN(P)=A +B*T +C*T**2 +D*T**3 +E*T**4
   TIME
                  FA(6)
                                         +F # 1 # # 5
 0.0
         520.0
                          A = -0.9911132290 - 02 D = 0.2668023520 - 01
                 0.0
                          P=-0.3349109380 00 F=-0.3245529250-02
 0.0029
                -0.2749
       395.0
 0.0073
        250.0
                -0.5931
                          C = -0.7136527839 - 01 F= 0.1348794189 - 03
 0.0129
         165.0
                -1.1479
                                 TIME
                                         Р
                                               FA(b)
 0.0179
         112.7
               -1.5353
                               0.0329
                                        45.0
                                              -2.4472
                                        25.0
 0.0223
         30.0
                -1.8713
                               0.0429
                                              -3.0350
 0.0279
                -2.1595
                               0.0529
                                        20.0
                                              -3.2581
          50.0
DATA F" 34 RUN # 152
                                       T=(T14E*PREF**2)/ALPHA
                            LA(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TIME
           2
                  LV(P)
                                         +F*T**5
 0.0
         433.0
                 0.0
                          A = 0.3229711170 - 02 D = 0.2048495980 - 01
                          8=-0.6385553020 00 E=-0.4800610290-02
 0.0013
         330.0
                -0.1420
        300.0
 0.0029
                          C= 0.2581182620-01
                                              F = 0.2863550769-03
                -0.3764
                                 TIME
 0.0075
        138.0
                -0.3453
                                         P
                                               [ //( b )
 0.0110
        140.0
                -1.1406
                               0.0275
                                        45.0
                                              -2.2756
                                              -2.6310
 0.0175
          35.0
                -1.6395
                               0.0325
                                        30.0
                               0.0375
 0.0215
          77.3
                -1.3337
                                        20.0
                                              -3.0855
DATA FROM RUN # 163
                                       T=(TIME*RREF**2)/ALPHA
                            LN(P)=A +64T +C*T**2 +D*T**3 +E*T**4
   TIME
           D
                  LN(P)
                                         +F*T **5
 0.0
         535.0
                 0.0
                          R=-0.7053537310 00 E= 0.9261507310-03
 0.0015
        430.7
                -0.2135
                          C= 0.1188095230 00 F= 0.1551164830-04
 0.0041
         320.0
                -0.5139
 0.0066
        243.0
                -0.7633
                                 TIME
                                         P
                                                LK(P)
 0.0116
        155.0
                -1.1763
                               0.0206
                                        00.0
                                              -2.1379
 0.0165
        112.0
                -1.5433
                               0.0316
                                        45.0
                                              -2.4756
                               0.0416
 0.0216
        30.0
                -1.9002
                                        40.0
                                              -2.5934
DATA FROM RJ. # 165
                                       T=(TIME#RPEF##2)/ALPHA
                            L'!(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TI":
                                         +F*T**5
                  L ((P)
 0.0
         575.7
                 0.0
                          Δ=-0.9634030410-02 D=-0.4038933500-01
 0.0022
         377.7
                          8=-0.74,1424450 00 E= 0.4743335760-02
                -0.3111
 0.0072
                          C= 0.1767376510 00 F=-0.200196165D-03
         215.0
                -0.3539
                                 TIME
 3.0122
        155.7
                -1.1196
                                                [4(2)
                                        50.9
 0.0172
         135.0
                -1.5705
                               0.0322
                                              -2.3125
 0.0223
          75.0
                -1.4071
                               0.0372
                                              -2.5357
                                       40.0
 3.3272
          40.º
                -2.1302
                               0.0472
                                       30.0
                                              -2.3234
```





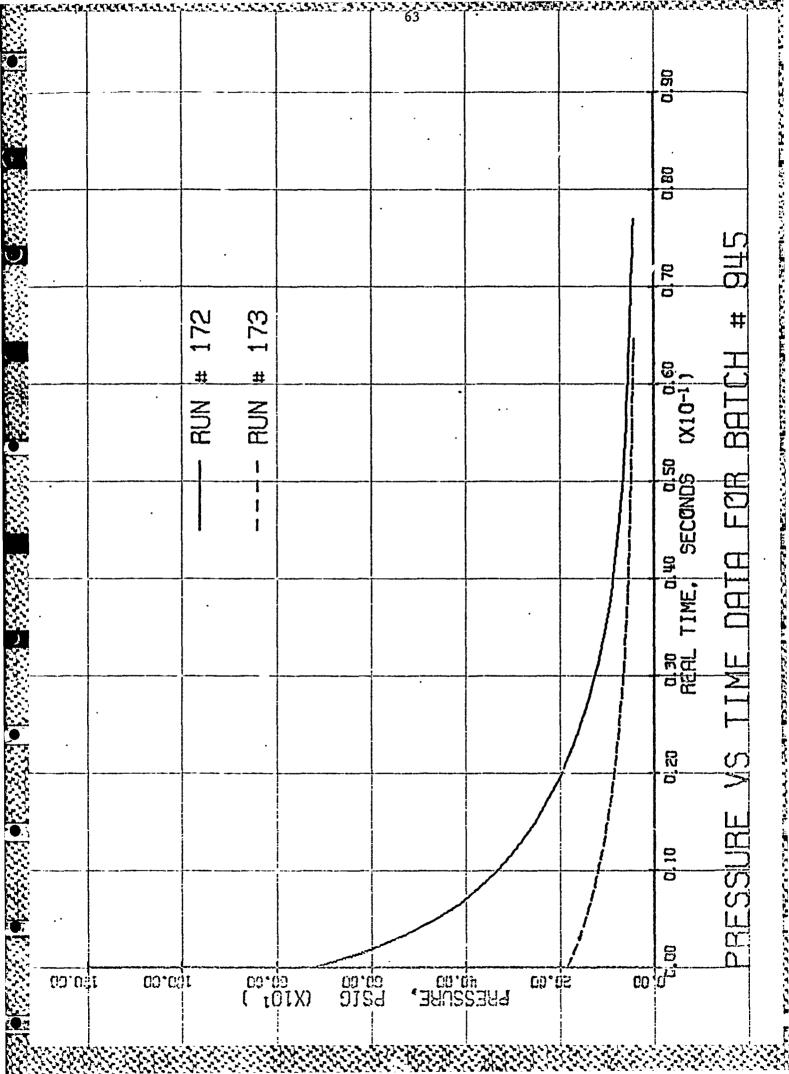
```
DATA FROM BUR # 166
                                        T=(TIME#RKEF##2)/ALPHA
                             LN(P)=A +8*T +C*T**2 +9*T**3 +E*T**4
   TIME
           Э
                  LN(P)
                                           +F*T**5
 0.0
         509.0
                 0.0
                           4=-0.1003569007-01
                                              D=-0.492066198D-02
        410.0
                -2.2163
                                              E= 0.4070603820-03
 0.0020
                           8=-0.4887481930 00
 0.0070
         280.0
                -0.5977
                           C = 0.5207254330-01
                                               F=-0.1505310690-04
 0.0121
         197.0
                                          P
                                                  LN(P)
                -0.3492
                                  TIME
 0.0170
         147.0
                -1.2420
                                0.0420
                                         62.0
                                               -2.1053
 0.0220
         115.3
                -1.4875
                                0.0520
                                         52.0
                                               -2.2812
 0.0320
                -1.3504
                                0.0620
          30.0
                                         40.0 -2.5436
DATA FROM RUN # 157
                                        T=(TIME*PREF**2)/ALPHA
                             LM(P)=A +B*T +C*T**2 +O*T**3 +E*T**4
           Э
   TIME
                  F.A(5)
                                           +F*T**5 +G*T**6
                                               E=-0.503404230D-02
 0.0
         700.0
                 0.0
                           A=-0.1053679270-01
 0.0029
         520.0
                -0.2973
                           B=-0.4547271000 00 F= 0.3976173760-03
 0.0079
         345.3
                -0.7075
                           C=-J.1022281750-01
                                               G=-0.109150295D-04
 0.0123
         255.0
                           D= 0.2450571099-01
                -1.0098
 0.0179
         190.0
                -1.3041
 0.0279
         155.7
                -1.5077
                                  TIME
                                                  LN(P)
 0.0274
         120.0
                -1.7636
                                0.0479
                                         50.0
                                              -2.6391
 0.0329
         100.0
                -1.9459
                                0.0579
                                         45.0 -2.7444
 0.0379
          82.0
                -2.1444
                                0.0679
                                         40.0
                                               -2.3622
DATA FROM RUY # 168
                                        T=(TIME=RREF##2)/ALPHA
                             LN(P)=4 +34T +C4T442 +04T443 +E4T444
   TIME
           5
                  L'I(P)
                                           +F*T**5 +G*T**6
                 0.0
 0.0
         650.0
                           A=-0.5965811850-C2 E=-0.6197248470-03
                           P=-0.4385736550 00 F= 0.5400734499-04
 0.0020
         530.0
                -0.2041
 0.0070
         350.0
                -0.5190
                           C = 0.3781133430-01
                                              G=-0.1495773070-05
 0.0120
         252.3
                -0.9475
                           0 = 0.1042223020 - 02
        135.0
 0.0170
                -1.2566
 0.0220
         145.7
                -1.5002
                                  TIME
                                          D
                                                 L:(2)
 0.0270
         122.2
                -1.5335
                                9.0470
                                         55.0
                                               -2.3026
 0.0320
         190.0
                -1.3718
                                9.0570
                                         55.0
                                               -2.4596
          35.0
 0.0370
                -2.2343
                                0.0770
                                         40.0
                                               -2.7381
DATA FROM RUT > 149
                                        T=(T14E#FREFF##2)/ALPHA
                             LV(P)=A +3#T +C#T##2 +5#T##4 +F#T##4
                                           +5*T**5 +G*T**6
           )
   Tim
                  FA(5)
 0.7
         543.1
                 (.)
                          7= 0.4283107310+02 F= 0.1957175350-02
 0.0023
         440.7
                -0.2043
                           3=-0.5255608370 00 F=-0.9710115459-04
                -3.4336
                           C= 0.1013794950 00 G= 0.1814333150-05
 0.0048
         350.0
0.0093
        253.0
                -1.7533
                           0=-0.1853117940-01
                -1.0185
 0.0143
         195.7
 0.0193
        152.)
                -1.2577
                                          p
                                                 LX(P)
                                  TIME
 0.0243
        122.0
                -1.4375
                                0.0444
                                         52.0
                                               -2.1544
 0.0293
         100.0
                -1.3364
                                J. 0548
                                         52.0
                                               -2.3403
 0.0343
          5.2 · ..
                -1.3342
                                0.0743
                                         47.0
                                               -2.5027
```



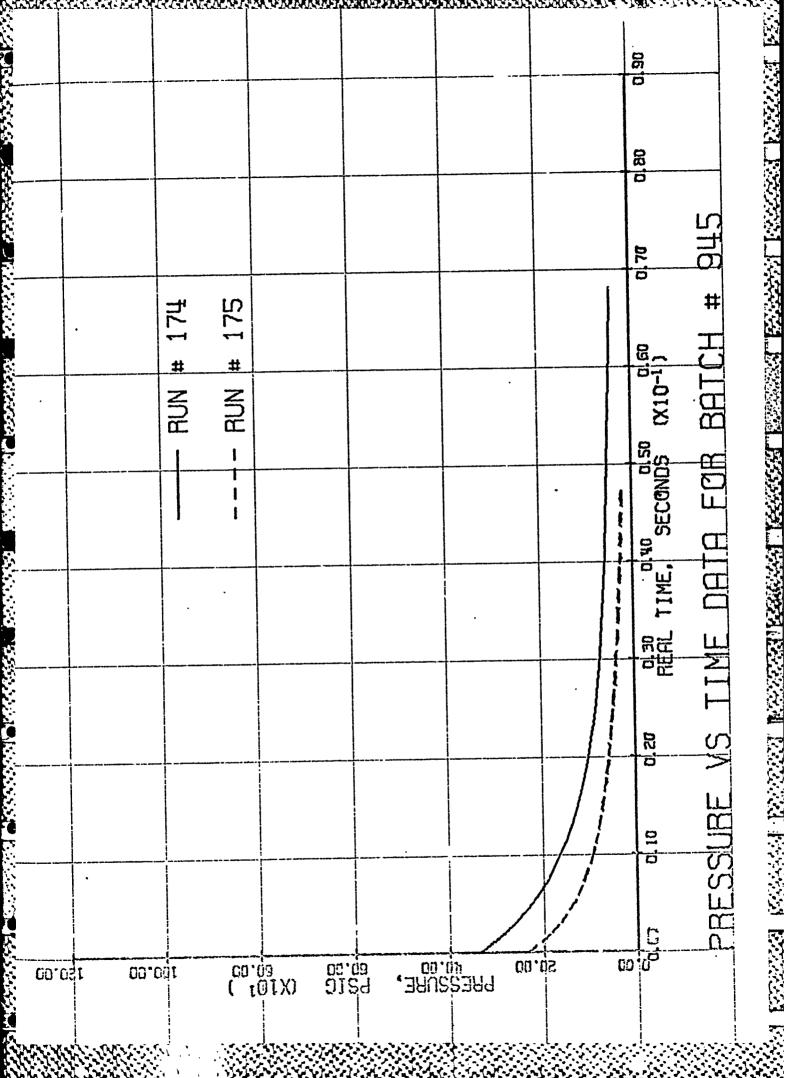


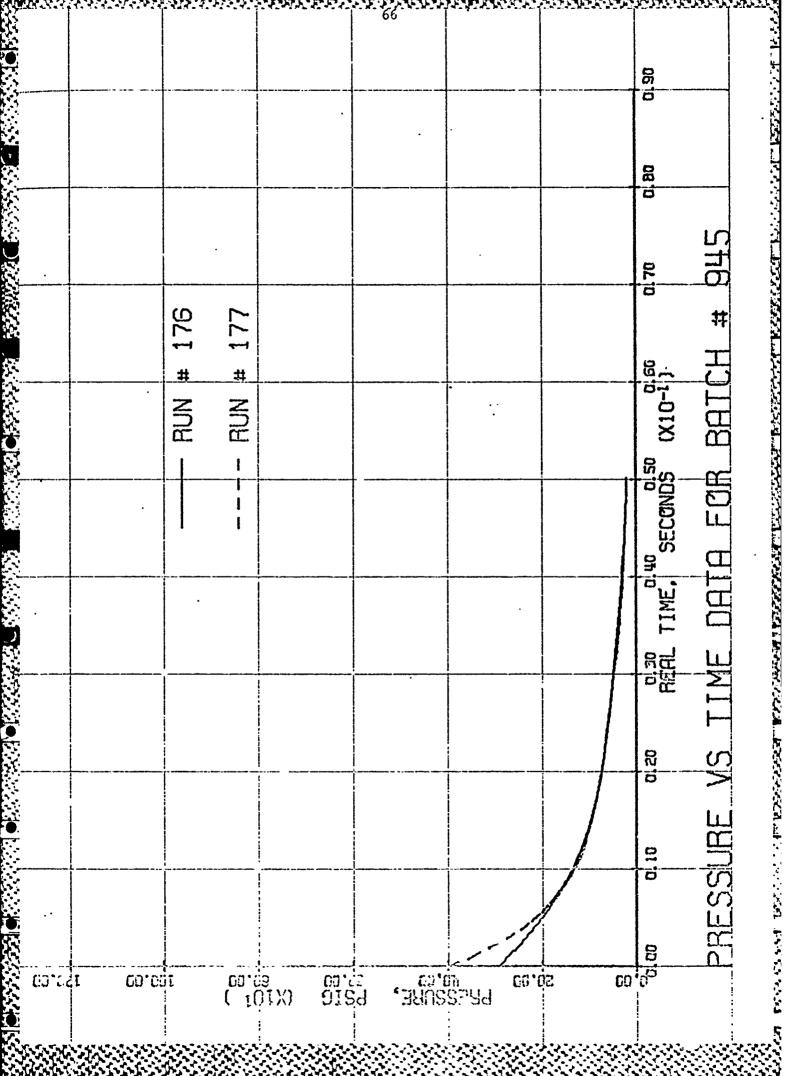
```
DATA FROM RUN # 170
                                          T=(TIME*RREF**2)/ALPHA
                              LN(P)=A +8*T +C*T**2 +D*T**3 +F*T**4
   TIME
                   LN(P)
                                            +F*T**5 +G*T**6
 0.0
          545.0
                  0.0
                            A = 0.1111631490 - 01 F = 0.1627541700 - 02
 0.0011
                 -0.0662
          500.0
                            B=-0.536467714D 00 F=-0.704942120D-04
 0.9041
          375.0
                 -0.3739
                            C= 0.1006457090 00 G= 0.1057975420-05
 0.0091
          265.0
                 -0.7211
                            D = -0.1723516370 - 01
 0.0141
          200.0
                 -1.0025
 0.0191
          160.0
                 -1.2256
                                   TIME
                                            P
                                                   LV(P)
 0.0241
          125.0
                 -1.4725
                                 0.0440
                                          45.0
                                                -2.1264
          105.0
 0.0291
                 -1.5463
                                 0.0541
                                          55.0
                                                 -2.2935
 0.9341
           85.0
                 -1.8581
                                 0.0741
                                           40.0
                                                 -2.6119
DATA FROM RUN # 171
                                         T=(TIME#RREF##2)/ALPHA
                              LN(P)=4 +3*T +C*T**2 +0*T**3 +E*T**4
   TIME
                   LV(P)
                                            +F+T++5 +G+T++6
 0.0
          505.0
                  0.0
                            A = 0.1440407530-01
                                                E= 0.900890259D-03
 0.0035
          425.0
                 -0.1725
                            B=-0.3243930040 00 F=-0.5613141010-04
 0.0035
          300.0
                 -0.5208
                            C = 0.1671012470-01
                                                 G= 0.163135972D-05
 0.0135
         225.0
                 -0.3085
                            [=-0.4584757607-02
 0.0195
         175.0
                 -1.0598
 0.0235
         133.0
                 -1.2973
                                   TIME
                                            Р
                                                   LN(P)
 0.0235
          110.0
                 -1.5241
                                          53.0
                                 0.0535
                                                 -2.1541
 0.0335
          90.0
                 -1.7247
                                 0.0635
                                          47.0
                                                 -2.3744
 0.0435
           63.0
                 -2.0051
                                 0.0835
                                          40.0
                                                 -2.5357
DATA FROM RUN # 172
                                         T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +3*T +C*T**2 +0*T**3 +F*T**4
   TIME
            2
                   LV(P)
                                            +F*T**5 +G*T**6
 0.0
          720:0
                  0.0
                           A=-0.1710937480-02 E= 0.1720385315-02
 0.0052 1455.0
                 -0.4590
                           9=-0.5215355240 00 F=-0.8316872580-04
 0.0102
         312.0
                 -0.8172
                           C= 0.9445298620-01
                                                G= 0.1519694970-05
 3.3152
         252.7
                 -1.0109
                           D = -0.1702978937 - 01
         133.0
 0.0202
                -1.3423
 0.0252
         153.3
                -1.5655
                                   TIME
                                           P
                                                   FA(5)
 0.0302
         125.)
                -1.7509
                                 0.0502
                                          65.0
                                                 -2.4049
 0.035?
         102.0
                 -1.9543
                                 0.0002
                                          55.0
                                                 -2.5719
 0.0402
          35.7
                 -2.1356
                                 0.9302
                                          40.0
                                                 -2.3904
DATA FROM 9UM - 173
                                         T=(TI) E#R?EF##2)/ALPHA
                             LN(P)=A +5#1 +C#T##2 +5#T##3 +E#T##4
   Time
                   E1(2)
                                           +F#T##5
 0.0
         13).7
                  7.7
                           A= 0.1780055440-01
                                                0 = -0.1133396300 - 02
                 -0.0270
 0.0023
         155.0
                           8=-0.2463027445 00 F= 0.1122802340-03
 0.0273
         137.7
                - ).3254
                           C = 0.1541248353-01
                                                F=-0.4459440530-05
 0.0123
         105.0
                 -1.53:0
                                   T.I.45
                                           p
                                                  LN(2)
                                0.0378
 0.0173
          58.3
                 -0.7150
                                          55.0
                                                -1.1356
                -0.3139
 0.0224
          3).0
                                0.0479
                                          50.0
                                                -1.2800
 0.0272
          77.7
                -0.9445
                                0.0673
                                          40.0
                                                -1.5041
```

1.00 1.00	7 ,33		PARTA POPULAÇÃO	ALEISIN.	74.27¢	SERVER OF		Victorial.	सदास्य	41.51.41.4	res elec	दरस्य	Received.	540K805	रासक	EKEN.
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PER VINE DE													1		ΓĊ	122
PER VINE DE														2		5
PER VINE DE					٠									D		
PER VINE DE				17(~		!			l 					#1	N
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60,651 00,601 00,03 00,03 00,03 00,03 (0,0) 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														52	()	
Co.est co.est co.es co.e				 -								//		ä		47.55
00.051 00.03											•	/			LL	19.03 19.03 19.03
Co.cst 00,cut 00,cs 00,c	○ .										1/			۵	四	<u> </u>
Co.ost 09.03 09.03 09.03 00.03 00.03 00.03 00.03	%	· · · · · · · · · · · · · · · · · · ·		 	·			<u> </u>			//-				-M	
Co.cst co.cst co.co co.co co.co co.co										1/					(V)	
Co.cst co.co co.co co.co to.co so.co to.co								1	The state of the s					B	Ŭ,	
BUESSAUE BEIC (XIO)	% -	00,03	0000	it	00'0	9	00.0	19	00'1	 ::7	09.0	2	(!0	- a)		a tent
					([[CKIE	919	a °:	STIL	PRES		·=	•			No.
	17							i [
	4.5															

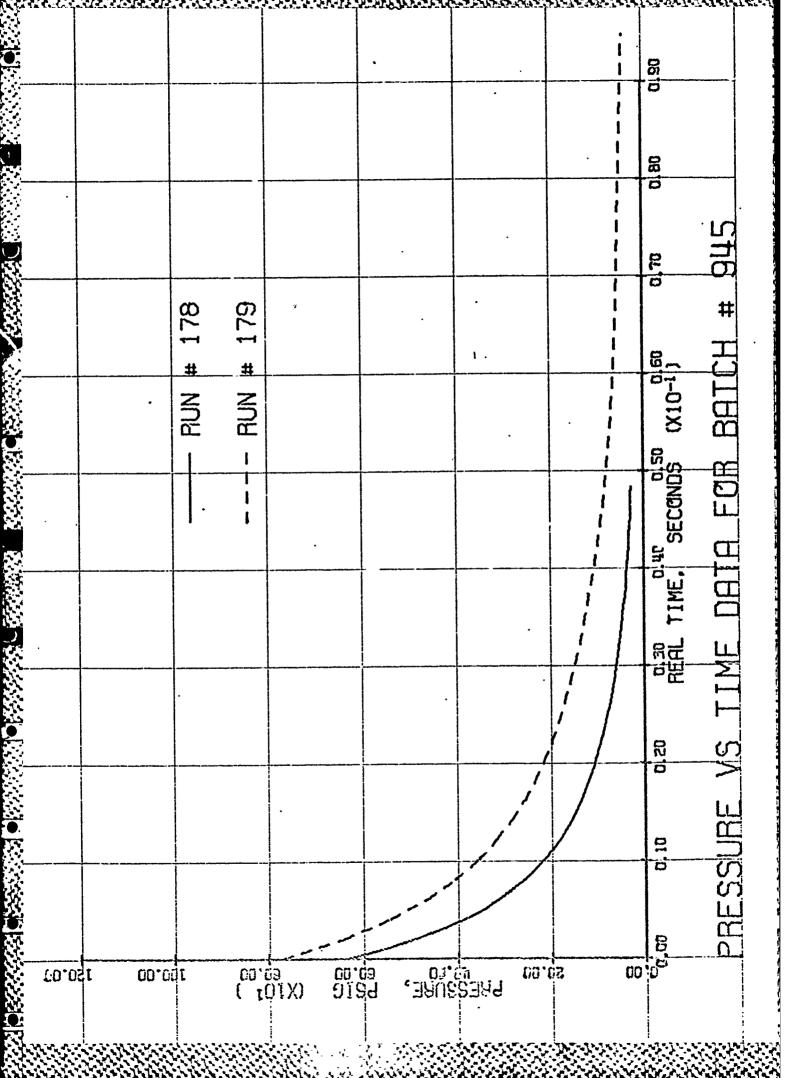


```
DATA FROM RIFE & 174
                                         T=[TIME#RREF##2]/ALPHA
                             LN(P)=A +B*T +C*T**2 +D*T**3 +E*T**4
   TIME
           •
                   LV(P)
                                           +F*T**5 +G*T**6
         335.0
 0.0
                  9.9
                           A=-0.3707694880-02
                                                E = 0.6058250520 - 03
 0.0010
         305.0
                 -0.0933
                           6=-0.4561136340 00 F=-J.3717053940-04
 0.0060
         205.0
                 -0.4911
                           C = 0.5523333670-01
                                                G = 0.9095509560 - 05
 0.0110
         152.0
                 -0.7903
                           D=-0.503059740D-02
 0.0160
         120.0
                 -1.7266
 0.0210
          95.0
                 -1.2503
                                           P
                                   TIME
                                                  LN(P)
 0.0200
          31.7
                 -1.4137
                                 0.0519
                                          50.0
                                               -1.9021
 0.0310
          70.0
                 -1.5656
                                 0.0610
                                          45.0
                                                -2.0075
 0.0410
          50.0
                 -1.7193
                                0.0710
                                          40.0
                                                -2.1253
DATA FROM SUN # 175
                                         T=(TIME#PREF##2)/ALPHA
                             LN(2)=4 +9*T +0*T**2 +0*T**3 +E*T**4
   TI
           Ģ
                   L'v()
                                           +F#T**5
 0.0
         230.0
                  0.0
                           A= 0.3J3142057D-02
                                                2=-2.2274317029-01
 0.0022
         130.0
                -3.2451
                           8=-0.5697223910 00
                                                E= 0.1793747240-02
 0.0042
         145.0
                 -0.4613
                           C= 0.1445657540 00
                                                F=-0.549053097D-04
 0.0097
          95.0
                 -0.3342
                                           P
                                   TIME
                                                  LN(P)
 0.0142
          75.0
                 -1.1206
                                0.0292
                                          40.0
                                                -1.7492
 0.0192
          50.0
                 -1.3437
                                0.0392
                                          27.0
                                                -2.1422
 0.0242
          45.0
                 -1.5314
                                0.0492
                                          20.0
                                                -2.4423
DATA FROM RUN # 176
                                         T=(TIME*RPEF**2]/ALPHA
                             L':(P)=4 +3*T +C*T**2 +3*T**3 +E*T**4
   TIME
           Р
                   LN(P)
                                           +F*T**5
 0.0
         232.0
                 0.0
                           A= 0.1740397310-01
                                                D= 0.3030452570-01
 0.0022
         255.0
                 -9.1112
                           0.0072
         155.)
                -0.5465
                           C = -3.7402547720 - 01
                                               F= 0.1557060610-03
 0.312? . 112.0
                -0.9340
                                           p
                                  TIVE
                                                  LN(P)
 0.017?
          35.)
                -1.2398
                                0.0322 1
                                          42.0
                                                -1.9143
 0.0222
          55.7
                 -1.4731
                                0.0422
                                          27.0
                                                -2.3567
 0.0272
          55.5
                 -1.5351
                                0.0522
                                          20.0
                                                -2.6558
DATA FROM RUN # 177
                                         T=(TIME#FREF##2)/ALPHA
                             L-1(P)=A +3*T +C*T**2 +9*T**3 +E*T**4
   TIVE
           Э
                  14(2)
                                           +5*1**5
         335.3
 0.0
                  ).)
                           A= 0.2306209520-01
                                                D= 0.2136096857-01
 0.0023
         31).1
                 -0.2495
                           F=-0.6705063830 00
                                                £=-0.4465717330-02
 0.0055
         205.0
                - 5.5302
                           C= 0.3235429810-01
                                                F= 0.243395439J-03
 0.01 15
         115.0
                -1.2353
                                  11.=
                                           2
                                                  F //(2)
          95.3
 0.0155
                -1.3094
                                0.0305
                                          45.0
                                                -2.1456
 0.0205
          75.)
                -1.0353
                                0.0355
                                          35.)
                                                -2.3979
 0.1255
          55.3
                -1.3459
                                0.0455
                                          25.3
                                                -2.7344
```





```
DATA FROM RUN: # 178
                                        T=(TIME#RREF##2)/ALPHA
                             LN(P)=A +3*T +C+T**2 +D*T**3 +F*T**4
   TIME
           Ģ
                  L'1(P)
                                           +F*T**5
 0.0
         640.0
                           4=-0.10503339150-01
                  0.0
                                               D=-J.117037225D-01
 0.0003
         500.0
                 -3.1335
                           B=-0.6912353720 00 E= 0.7005434430-03
 0.0054
         335.0
                           C= 0.9693757790-01 F=-0.131046696D-04
                 -3.6473
 0.0104
         205.0
                 -1.1385
                                          Ω
                                  T I -4=
                                                  1 3(2)
 0.0154
         14".0
                                          58.0
                 -1.4847
                                0.0304
                                                -2.4010
 0.0204
         102.0
                -1.9365
                                0.0404
                                         35.0
                                                -2.9051
 0.0254
          75.0
                 ~2.1440
                                0.0504
                                         25.0
                                                -3.2426
DATA FOOT 934 # 179
                                        T=(TIME*P*EF*#2)/ALPHA
                             L'1(P)=A +3#T +C#T##2 +0#T##3 +E#T##4
   TIME
          )
                  ['1(P)
                                           +F*T**5 +G*T**6 +H*T**7
 0.0
         77:).7
                  3.3
                           A=-0.7928537910-03 E=-0.7586347440-03
 0.0033
         550.0
                -0.3365
                           3=-J.4735505020 00 F= J.906960575D-04
 9.0083
         335.0
                -2.5731
                           C= 0.4755615070-01 G=-0.4156333040-05
 0.0133
         290.0
                -0.9765
                           D=-0.3106233760-03 H= 0.6807874800-07
 0.0183
         225.0
                -1.2303
 0.0233
                -1.4260
         185.0
                                          D
                                  TIVE
                                                  LX(P)
 0.0233
         155.0
                -1.5030
                                0.0533
                                         65.9
                                               -2:4720
 0.0333
         13).0
                -1.7739
                                0.0633
                                         55.0
                                               -2.5391
 0.0383
         110.0
                -1.9459
                                0.0733
                                         50.0
                                               -2.7344
 0.0453
                -2.2644
          30.0
                                0.0933
                                         40.3
                                               -2.9575
CEL # SLS MC93 ATAC
                                        T=(TIME#RREF##2)/ALPHA
                             LN(P)=A +34T +C#T##2 +7#T##3 +E#T##4
                  LN(P)
   TIME
          Э.
                                           +F#T##5 +G#T##4
 0.0
         755.0
                 0.0
                           A=-0.1117450380-01 E= 0.5291885620-02
 0.0032
         533.0
                -0.3339
                           5=-0.5529953330 00 F=-0.3421955520-03
 0.1082
         372.0
                -3.7078
                           C= 0.1290077000 00 G= 0.305534877D-05
 0.0132
         272.3
                -1.0209
                           D=- J.355154422 D-01
 0.0182
         203.0
                -1.2892
 0.3232
         135.0
                -1.7214
                                  TING
                                          9
                                                 FA(5)
 0.0232
         105.0
                -1.9723
                                0.3432
                                         52.0 -2.4995
 0.033?
                -2.1259
          90.7
                                         55.0 1-2.6194
                                0.0532
                -2.2700
 0.0322
          73.0
                                0.0782
                                         50.0 -2.7147
DATA F134 RUN # 131
                                        T=(TI) c#KPEF##2)/ALPHA
                             La(P)=1 +5%T +C%T%A2 +5%T%A3 +F%T%A4
   TIME
           3
                  £ ;(P)
                                          +F#T##5 +G#T##6
 0.0
                 ^.)
                           555.)
                -1.)732
 0.0000
                          5=-0.5244934230 00
         315.7
                                              F=-0.1317929770-03
 0.0051
         410.0
                -7.4735
                          C= 0.11632/2700 00 G= 0.4095397550-05
 0.3133
         333, 1
                -0.7360
                           J=-0.2547735110-01
 9.3159
         235.)
                -1.3402
                -1.2794
 0.3209
         135.3.
                                  11.-2
                                          2
                                                 L'.(9)
 9.025 7
         143.)
                -1.3125
                                0.0457
                                         75.3
                                               -2.152?
 0.0100
         12 . 5
                -1.7123
                                0.055-
                                         53. 3
                                               -2.4393
 0.0357
         120.0
                -1.7466
                                         40.1
                                2.3709
                                               -2.1109
```



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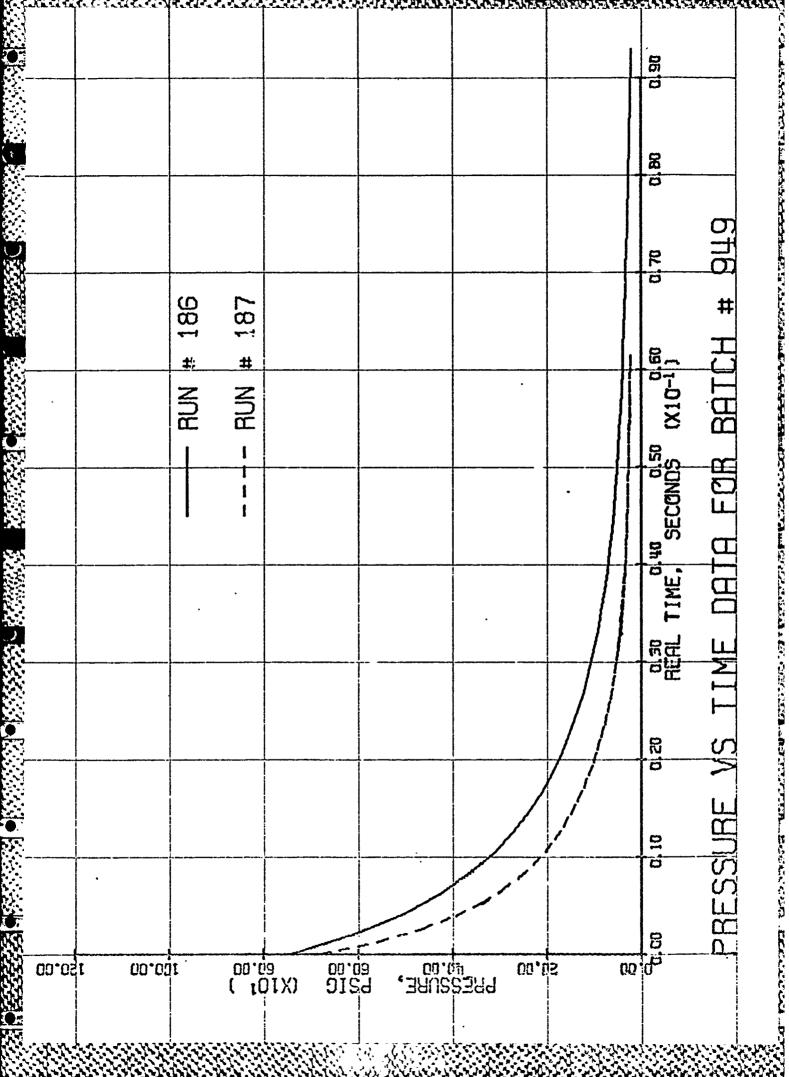
```
T=(TIME#RPEF##2)/ALPH4
DATA FROM RUN y 182
                             LV(P)=4 +3*T +C*T**2 +9*T**3 +E*T**4
                                           +F*T**5 +G*T**6 +H*T**7
   TIME
           P
                  Ly(P)
                           0.0
         645.0
                  0.0
                           B=-0.7056415230 00 F= 0.1001236460-03
 0.0020
        510.0
                -0.2343
                           C= 0.1501551730 00 G=-0.246911773D-04
 0.0053
         400.0
                -0.4778
                           D=-0.2891591549-01 H= 0.9631022660-06
         335.0
                -0.4551
 0.0070
 0.0120
                -0.9336
         240.0
                                  TIME
                                          Ъ
                                                 EN(P)
                -1.2652
 0.0170
         132.7
                                0.0470
                                         50.0
                                                -2.5572
 0.0220
         140.0
                -1.5276
                                0.0570
                -1.7371
                                         38.0
                                                -2.8317
 0.0271
         103.0
                                                -3.2504
                                0.0570
                                         25.0
 0.0320
          35.0
                -2.7266
                -2.1518
                                0.9770
                                         20.0
                                                -3.4735
 0.9370
          75.0
                                        T=(TIME#RREF##2)/ALPHA
DATA FROM RUN # 183
                             LN(P)=A +3#T +C#T##2 +D#T##3 +E#1##4
                                           +F*T**5 +G*T**6 +H*T**7
                  LVIPI
   T138
          Ð
                           4=-3.7445300469-0? F= 0.3566132840-02
         770.0
                  0.0
 0.0
                           9=-0.5661266770 00 F=-0.3543927370-03
                -0.0354
 0.0003
         707.9
                          C = 0.1009363057 00 G = 0.179693874D - 04
         430.0
                -0.4725
 0.0053
                           D=-9.2137354199-01 H=-0.3557251170-06
 3.0108
         350.0
                -0.7603
         275.0
                 -1.0296
 0.0153
         223.0
                -1.2523
                                  TINE
                                          P
                                                  LN(P)
 0.0203
                                         73.0
                                                -2.2397
 0.0253
         130.7
                -1.4534
                                0.0603
 0.0303
         155.0
                -1.5030
                                0.0708
                                         65.0
                                                -2.4720
                 -1.3529
                                0.0803
                                          59.0
                                                -2.5859
         127.0
 0.0403
                                                -2.7344
                -2.0925
                                0.1003
                                          50.0
 0.0503
          95.0
                                         T=(TIME#RREF##2)/ALPHA
DATA FROS RUM = 134
                             LN(P)=A +3*T +C*T**2 +D*T**3 +F*T**4
                                           +F +T ++5 +G +T ++6 +H+T ++7
                  F.1(5)
   TIME
                           A=-0.9054671250-02 E=-0.9543193237-04
 9.3
         555.7
                  2.7
                           E=-0.5249609810 00 F= 0.6539917000-04
 0.0021
        540.0
                 -0.1931
                           C = 0.7030434399-01 G = -0.4505921089-05
 0.0071
                 -0.5236
         333.)
                           D=-0.6132004450-02 H= 0.9729747300-07
 0.0121
         270.7
                 -0.3148
         235.0
                 -1.0251
 0.6171
                                   TIME
                                          Þ
                                                  LH(P)
         145.7
                 -1.2043
 0.0221
                                                -2.3738
                                0.0671
                                          51.7
 0.3771
         155.
                 -1.4 + 12
                                0.0771
                                          55.0
                                                -2.4773
                 -1.7397
 0.0371
         115.)
                 -2.0073
                                                -2.5726
          .:.0
                                0.0571
                                          50.0
 0.0471
                 -2.2361
                                 0.1071
                                          45.0
                                                -2.5730
 0.0571
          70.0
                                         T=(TI 'E#FPEF##2)/ALPHA
2114 537 1 334 1 135
                             1 N(P) = 4 + 3#T + C#T##2 : D#T##3 + F#T##4
                                           +6 × T * 5 + G * T * 7 5
   TIME
           ?
                   [ ] [ P ]
                                                E=-0.3275125809-02
                           A= 0.2585107170-01
                  1. )
 0.3
         633.9
                           P=-0.4201129350 00 F= 0.2003954480-03
                 -).1159
 0.0027
         505.0
                           (=-0.35251910/0-01
                                                3=-6.4554140110-05
         799.7
                 -0.5(11
 0.3)77
                           f= 0.2575516710-01
 0.0127
         275.9
                 -1. 437
         195.0
                 -1.2971
 0.1177
                                   TIRE
                                          9
                                                 [A(5)
 0.0227
         145.0
                 -1.5454
                 -1.7772
                                 2.527
                                          45.7
                                                -2.7154
 0.0277
          115.3
          93.1
                 -2.1224
                                 2.0727
                                                -3.1209
                                          31.0
 0.0327
           5).0
 0.0427
                 -7...277
                                 3.1.127
                                          23.3
                                                -3.5254
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				AE VS TIME DATA FOR BATCH # 949
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DATA FROM RUN # 186
                                          T=(TIME#RREF##2)/ALPHA
                              LV(P)=4 +3*T +C*T**2 +0*T**3 +E*T**4
   TIVE
            Э
                   LV(P)
                                            +F*T**5 +G*T**6
 0.0
          725.0
                  0.0
                            A= 0.2094195330-01
                                                 E= 0.205035907D-02
 0.0012
                 -0.0715
          675.0
                            3=-0.6413812960 00
                                                F=-0.116980556D-03
 0.0062
          420.0
                 -0.5459
                            C= 0.9863071029-01
                                                 G= 0.253149365D-05
 0.0112
          295.0
                 -0.5992
                            D=-0.1777533400-01
 0.9152
          215.7
                 -1.2155
 0.0212
          150.0
                 -1.5110
                                            ρ
                                   TIME
                                                   LN(P)
 0.0202
          125.0
                 -1.7579
                                 0.0612
                                           38.0
                                                 -2.9436
 0.0312
          150.7
                 -1.9810
                                 0.0312
                                           25.0
                                                 -3.3673
 0.0412
           65.0
                 -2.4113
                                 0.1012
                                           20.0
                                                 -3.5904
DATA FROM RUN # 187
                                          T=(TIMF#RREF##2)/ALPHA
                              LN(P)=A +3#T +C#T##2 +D#T##3 +F#T##4
   TIME
            Э
                   LN(P)
                                            +F*T**5 +G*T**6
 0.0
          575.0
                  0.0
                            A = 0.4959577129-02
                                                E= 0.950440926D-02
 0.0021
                 -0.3001
          500.0
                            5=-0.1006910820 01
                                                 F = -0.524774916D - 03
 0.0043
         375.7
                 -0.5378
                            C= 0.2629381350 00
                                                G= 0.143668626D-04
 0.0093
          225.0
                 -1.0986
                            D = -0.6710738760 - 01
                 -1.5641
 0.0143
          150.0
 0.0193
         190.0
                 -1.9095
                                   TIME
                                            Р
                                                   LN(P)
 0.0243
          75.)
                 -2.1972
                                 0.0443
                                          30.0
                                                 -3.1135
 0.0293
           55.0
                 -2.5074
                                 0.0543
                                          25.0
                                                 -3.2953
 0.0343
           40.0
                 -2.3258
                                 0.0643
                                          20.0
                                                 -3.5190
DATA FROM SUN 4 193
                                          T=(TI4E#RPEF##2)/1LPHA
                              LN(P)=A +5*T +C*T**2 +D*T**3 +F*T**4
   TIME
            ŗ
                   F A(5)
                                            +F#T##5 +G#T##6 +H#T##7
 0.0
         614.0
                  0.9
                            A= 0.3319862380-02
                                                 E= 0.1434037670-01
 0.0011
         545.0
                 -0.1257
                            8=-0.7921748310 00
                                                 F=-0.1411050730-02
          340.0
 0.0061
                 -0.5975
                            C= 0.247912376J JO G= 0.587739586D-04
 0.0111
         240.0
                 -0.9458
                            D=-0.7777439390-01
                                                H=-0.130326179D-05
 0.0151
         130.0
                 -1.2335
         133.0
 0.0211
                 -1.4992
                                 · TIME
                                            Р
                                                   FM(b)
 0.0241
         105.0
                 -1.7725
                                 0.0511
                                          38.0
                                                 -2.7859
 0.0311
          33.7
                 -1.3492
                                 0.0711
                                          25.0
                                                 -3.2076
 0.0411
           55.0
                 -2.2521
                                                 -3.4?08
                                 0.0311
                                          20. ?
 0.0511
           47.5
                 -2.5760
                                 0.1011
                                          15.0
                                                 -3.7134
)474 F-3: KJ: : 134
                                         LN(+)= \ +5#\ +C#\###2 +5#\### +E#\###
           2
   TI :=
                  L.(P)
                                            +F*T**5 +G*T**6
 0.0
         6.5.J
                            1= 0.2707032930-02
                  0.0
                                                 E= 0.5649206620-01
                            1=-0.113:213340 01
 0.0013
         520.5
                 - 1. 7 7.2
                                                 F=-0.55933~4572-02
 0.0045
         355.0
                 -C.4277
                           C= 0.5056209350 00
                                                G= 0.2713301030-03
 2.1767
         201.3
                 -0.7960
                            0=-0.2315497490-00
 0.0095
         215.3
                 -1.1291
 0.0145
         14).3
                 -1.5531
                                   T1. =
                                                   F4(5)
 0.0195
          22.1
                 -1.3723
                                 1,0345
                                          40.0
                                                 -2.3109
 0.7245
          55.0
                 -2.3254
                                 0.0375
                                          32.0
                                                 -3.0341
 0.1295
          52.0
                 -7.5455
                                 J. 04 75
                                          33.0
                                                 -3.00035
```

BANNAN BELEVAL VANDEL VANDEL VERSEN INTERNATION DESCRIPTION DESCRIPTION PROVIDE BENEVER

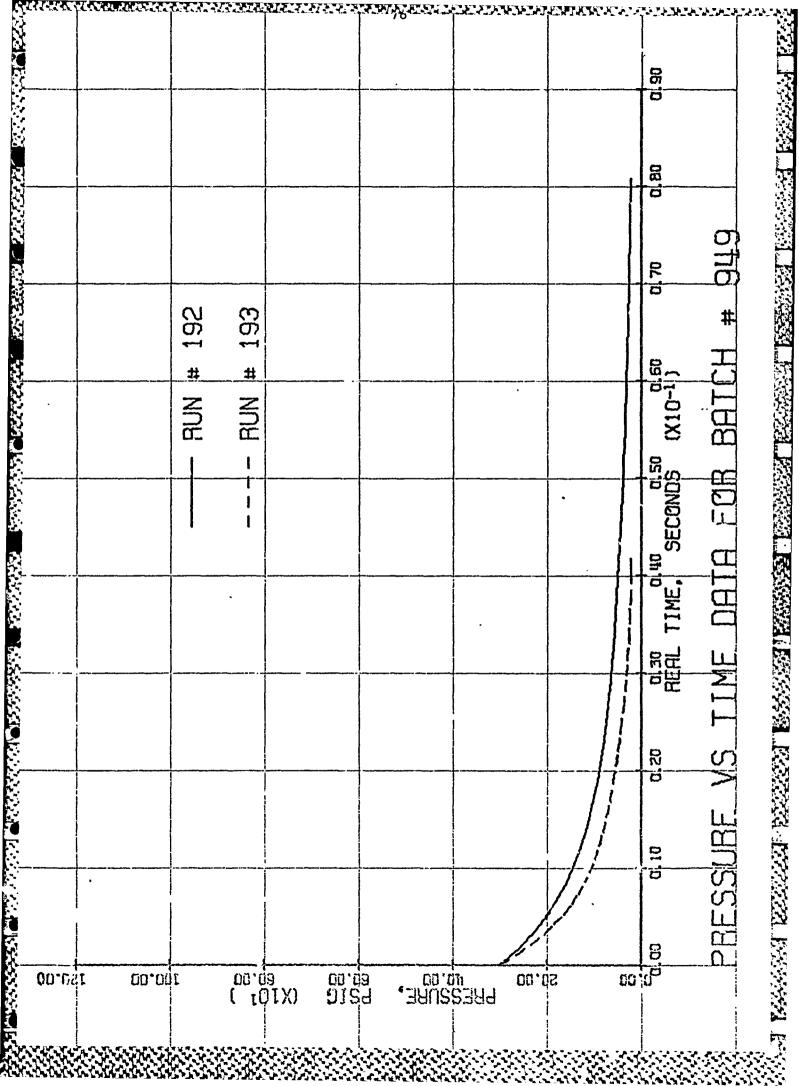


						08. 10
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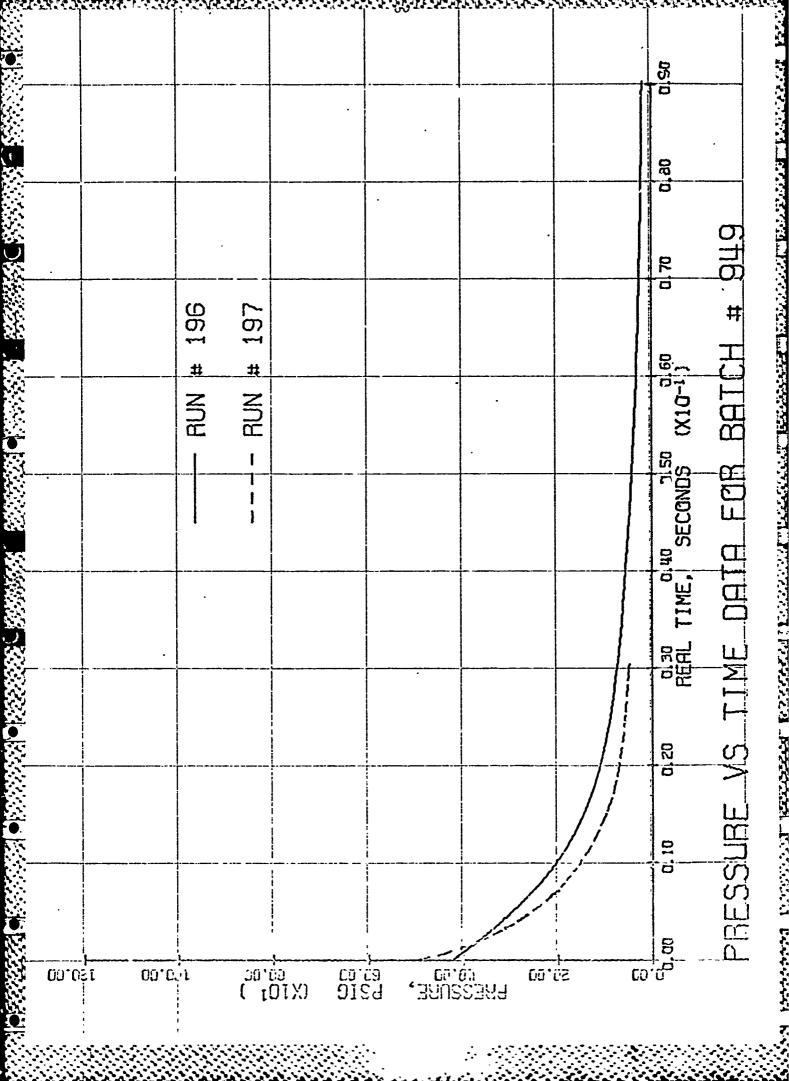
## BATCH # 949 / 75.0% AP, 25.0% PBAA

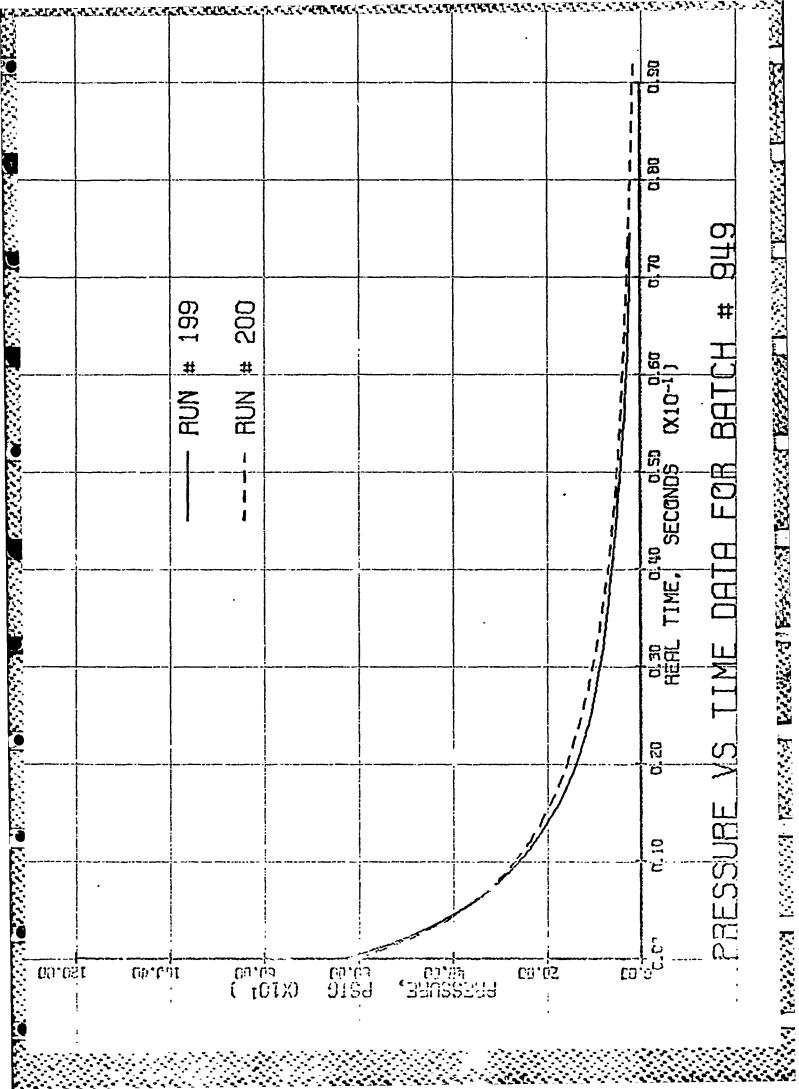
```
CCI * ZUS PUST ATAC
                                          T=(TIME*PREF**2)/ALPHA
                              LN(P)=A +8*T +C*T**2 +D*T**3 +5*T**4
                                             +F*T**5 +G*T**6 +H*T**7
            þ
   TIME
                   LN(P)
                                                  E= 0.212328587D-02
                            A=-0.332449747D-02
 0.0
         500.C
                  0.0
                            3=-0.5156087200 00
                                                 F=-0.1541509610-03
 0.0012
          450.0
                 -0.1054
                                                  G = 0.605186389D - 05
                            C = 0.9503035159-01
 0.0062
         325.0
                 -0.4308
                            D=-0.173689309U-01
                                                 H=-0.989881523D-07
 0.0112
                 -0.7134
         245.0
 0.0162
          200.0
                 -0.9163
                                    TIME
                                                    [1(b)
                 -1.1387
 0.0212
          165.0
                                            70.0
                 -1.2730
                                  0.0552
                                                  -1.9661
 0.0262
          140.0
                                                  -2.0075
                                            62.0
                                  0.0662
 0.0312
          120.0
                 -1.4271
                                  0.0762
                                            56.0
                                                  -2.1393
 0.0362
          105.0
                 -1.5506
                                                  -2.3026
           35.0
                 -1.7720
                                  0.0962
                                            50.0
 0.046?
                                           T=(TIME#RREF##2)/ALPHA
DATA FROM RUN # 191
                              LN(P)=1 +8*T +C*T**2 +D*T**3 +5*T**4
                                             +F*T**5 +G*T**5
                   LY(P)
   TIME
                            A=-0.1877839200-03
                                                  \dot{z}= 0.1739939690-02
 0.0
          325.0
                  0.9
                                                 F=-0.1063694050-03
                            E=-0.4906840950 00
 0.0040
          245.)
                 -0.2326
                                                  G= 0.257840563D-05
 0.0076
          200.0
                 -0.4355
                            C = 0.9171377217-31
                 -0.5035
                            D=-0.1530934747÷01
 0.0090
         185.7
 0.0140
         150.0
                 -0.7732
                 -0.9555
                                    TIME
                                                    FA(b)
 0.0190
          125.0
                                                  -1.5072
 0.0240
          107.7
                 -1.1110
                                  0.7440
                                            72.0
                                  0.0040
                                            58.0
                                                  -1.7234
         . 95.0
                 -1.2299
 0.0290
                                                  -1.3713
                 -1.3412
                                  0.0840
                                            50.0
 0.0340
           35.7
DATA FROM PUT # 192
                                           T= (TIME #RKEF##2)/ALPHA
                               LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
                                             +F*T**5 +G*T**5
                   EN(P)
   TIME
                            A= 0.225995402D-02
 0.0
          375.7
                  0.0
                                                 ==-0.684847849D-03
                            3=-0.5389794139 00
                                                  F= 0.731253983D-04
 0.0020
          203.3
                 -1.1595
                                                  G=-0.225379543D-05
          220.0
                            C= 0.6304533150-01
 0.0041
                 -0.3207
                            P=-0.126232606D-02
 0.0091
          155.0
                 -7.5767
          125.0
                 -).9920
 0.0141
                                                    LY(P)
 0.3191
           95.7
                 -1.1064
                                    T1 "5
                                  0.0441
                                            50.0
                                                  -1.8933
           17.1
                 -1.3125
 0.0241
                                                  -2.1550
                                  0.0541
                                            35.0
 0.0291
           72.2
                 -1.4+30
                 -1.5932
                                  0.0341
                                            25.0
                                                  -2.5014
 0.0341
           52.)
                                           T=(TI 18#4PEF##2)/ALPHA
DATA F137 17 / 100
                               L v ( P ) = A + 3 * F + C * T * * ? + D * T * * 3 + F * T * * 4
                                             +F#T##5 +G#T##6
                   1 .(2)
   TILE
                            5= 9.32/1531230-02
                                                  ~=-).3091592500-01
 0.7
          305.0
                  9.3
                                                  F= 0.+047426340-02
                            n=-0.734774339) 00
                 -0.1219
 0.0011
          27).0
                            (=-0.2107893150-61
                                                  3=-0.1362933539-03
 0.0023
                  -1.3257
                 -7.5749
                             D= 0.93(4):483)-61
          155.0
 9.0051
 0.3111
          102.3
                 -1.3953
                                                    LN(2)
 9.0151
           75.)
                 -1.4323
                                    11.3
                 -1. (599
                                  0.0351
                                            33.0
                                                  -2.3191
 0.0211
           53. ;
                                                  -2.3481
                 -1.3135
                                  0.0411
                                            23.0
 0.0251
           43.3
                                                   -2.5014
                  -2.1450
                                  0.0511
 2.0511
           35.)
```

	一大ないないない。一気では		である。		グラーへで		できること		い。これが大		T.	
00.0						<del></del>	· · · · · · · · · · · · · · · · · · ·					
00°00		<del></del>					•					
						Œ 	HUN #	190				
0100 01 01					1	B	RUN #	191				· · · · • · · · · · · · · · · · · · · ·
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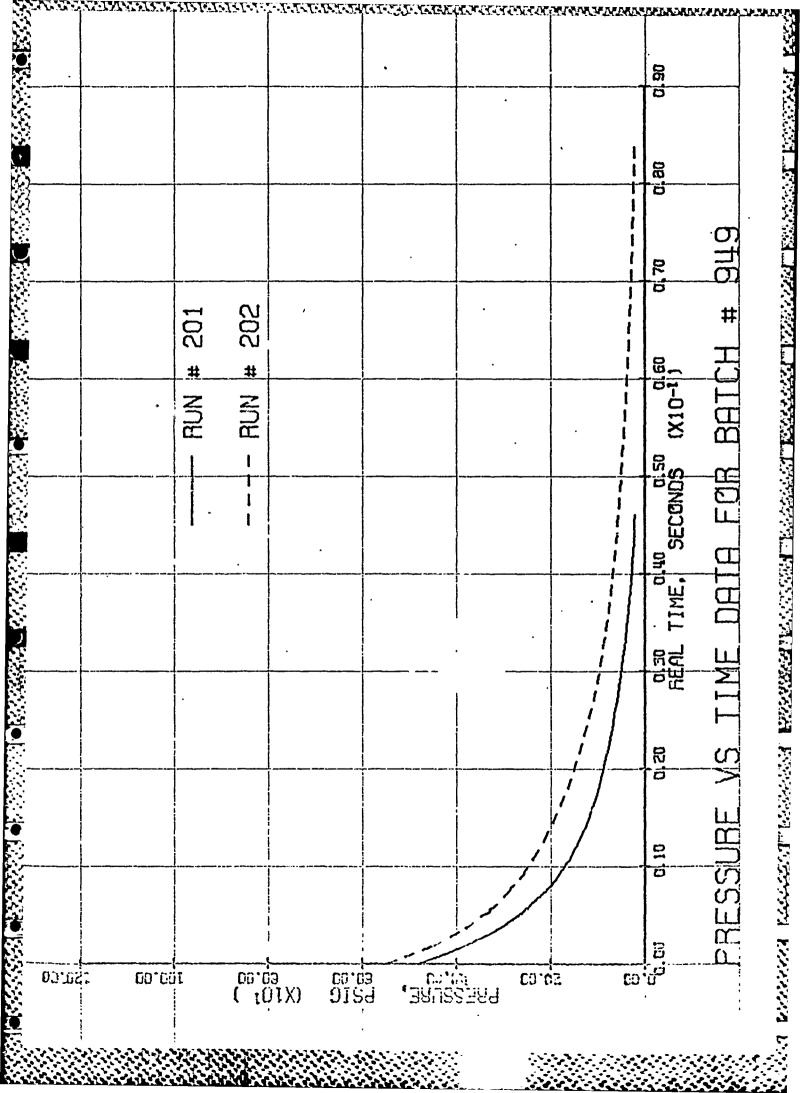
```
DATA FROI RUN # 196
                                        T=(TIME*RREF**2)/AIPHA
                            LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
   TIME
           ρ
                  L4(F)
                                          +F*T**5 +G*T**6 +H*T**7
 0.0
         410.0
                           A= 0.1977698990-01
                 0.0
                                               5=-0.9490336290-02
 0.002.
         360.0
                -0.1301
                           P=-0.3944095450 00 F= 0.8421780540-03
 0.0049
         325.0
                -0.2323
                           C=-0.107391044D 00 G=-0.374066862D-04
 0.0090
         205.0
                -0.5931
                           D= 0.5338525079-01
                                               H= 0.4647121720-05
 0.0140
         143.0
                -1.0139
 0.0190
         115.0
                -1.2712
                                  TIVE
                                         D
                                                 LN(P)
          33.7
 0.0240
                -1.5383
                               0.0540
                                         35.0
                                              -2.4408
 0.0290
          75.7
                -1.5937
                               0.0540
                                        25.0
                                              -2.7973
 0.0340
          69.0
                -1.9213
                               0.0740
                                         20.0
                                               -3.0204
 0.0440
          45.0
                -2.2005
                               0.0940
                                         15.0
                                               -3.3081
DATA Fr ) 1 x J" x 197
                                        T=(TIME#RPEF##2)/ALPHA
                            L'1(P)=A +P#T +C#T##2 +D#T##3 +E#T##4
   11"5
                  f / ( 5)
                                          +F*T**5
 0.)
         493.3
                 2.)
                          A=-0.1170355540-02 0=-0.1787763400 00
 0.0017
         375.0
                -0.2575
                          0.0035
         30).0
                -9.4994
                          C= 0.3807437519 00
                                              F=-0.3630613640-02
 0.0057
         200.0
                -0.3714
                                 1147
                                         p
                                                LN(2)
 0.0094
         160.0
                -1.1132
                               0.0157
                                        32.0
                                              -1.7377
 3.9117
         125.3
                -1.3001
                               0.0217
                                        30.0
                                               -2.1301
 0.0141
         100.0
                -1.5372
                               0.0317
                                        40.0
                                               -2.5055
DATA FROM RUL - 199
                                       T=(TIME#PREF##2)/ALPHA
                            LN(P)=4 +6+T +C+T++2 +9+T++3 +5+T++4
   T1 45
                  L'(P)
                                          +F*T*45 +G*T**6 +H*T**7
 0.0
         625.)
                 2.0
                          0.0020
         477.3
                          B=-0.7600570580 00 F=-0.249080411D-02
                -0.2354
0.7345
         473.7
                -0.4453
                          C= 0.2234127640 00 G= 0.1545313730-03
0.0075
         365.0
                -0.7174
                          n=-0.342505271)-31 H=-0.3722302950-05
0.0125
         215.5
                -1.0571
 0.0175
        155.0
                -1.3942
                                 TI"F
                                                LMIP
0.0225
         122.0
                -1.5337
                               0.0474
                                        42. )
                                              -2.5555
 3.0276
         95.1
                -1.033
                               0.0576
                                        32.0
                                              -2.9720
 0.0324
          73.7
                -2.3910
                               0.0074
                                        25.0
                                              -3.2139
 0.0275
         55.7
                -2.2534
                               0.0776
                                        20.0
                                              -3.4420
DATA FACT OF PA
                2),1
                                       T=(T1)を含いで日本を2)/aもおける
                            L'(P)=A +54T +64T#A2 +5#T##3 +6#T##4
  1120
          (2)
                  1 . (9)
                                         +-+T#40 +3#T##6 +H# [##7
         , );. '
J. J
                          3.7317
         49...
                -7.1344
                         Ar-1.6755256050 00 F=-0.1372859850-03
         42).3
 ... COR.
                          G= 0.14(1321610 00 G= 0.2334582710-05
                -0.3/50
3 3347
         333.0
                - : 1
                          "=-J.Lov5: (272)-01 H= 0.1707665880-07
0.5117
         ٠. .. )
                -1.1241
2.31.7
         3 35. 1
                -1.1.45
                                 11...
                                         D
                                                L':(2)
0.0217
         145.5
                -1.4235
                               3.14:7
                                        25.3
                                              -2.3070
3. 2 ?
         117.5
               3. 7 - 7
                                        +2.5
                                              -2.5575
         - , . .
3.3-17
                -1..919
                               J . . 7 . 7
                                        20.
                                              -3.1:54
          · ) • -
9. 1 . 7
                -2,32.2
                               7. 7. 7
                                        1:.7
                                              -3,4072
```

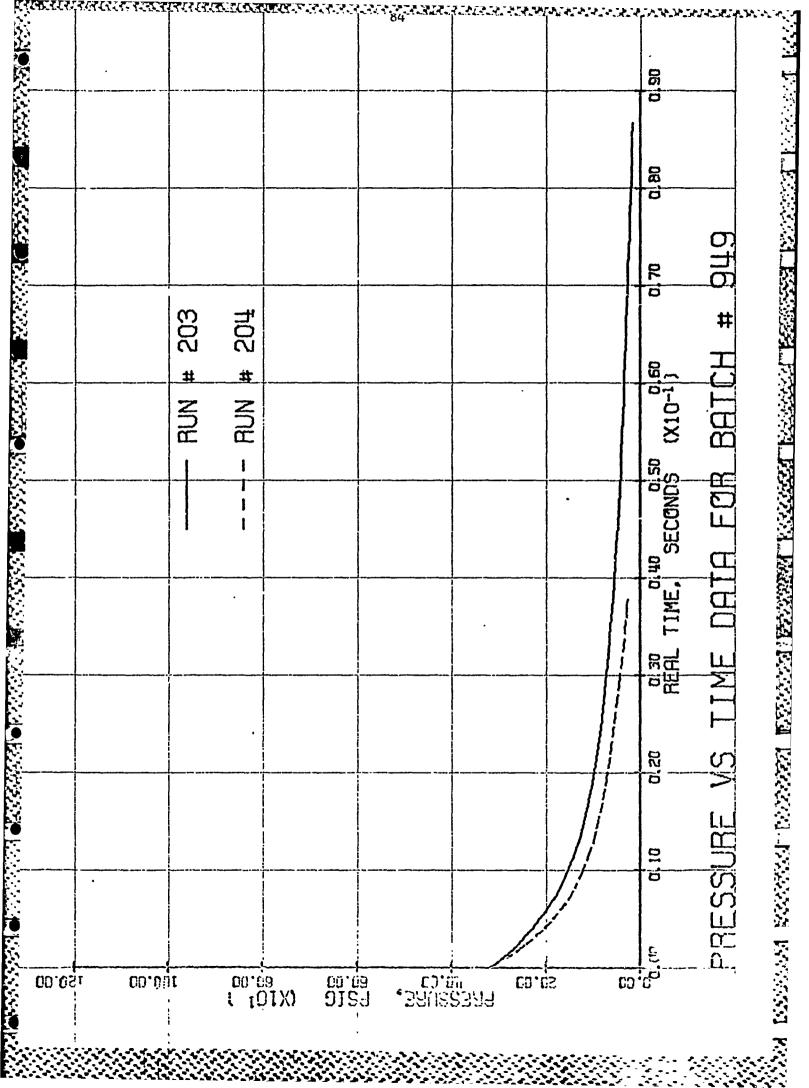




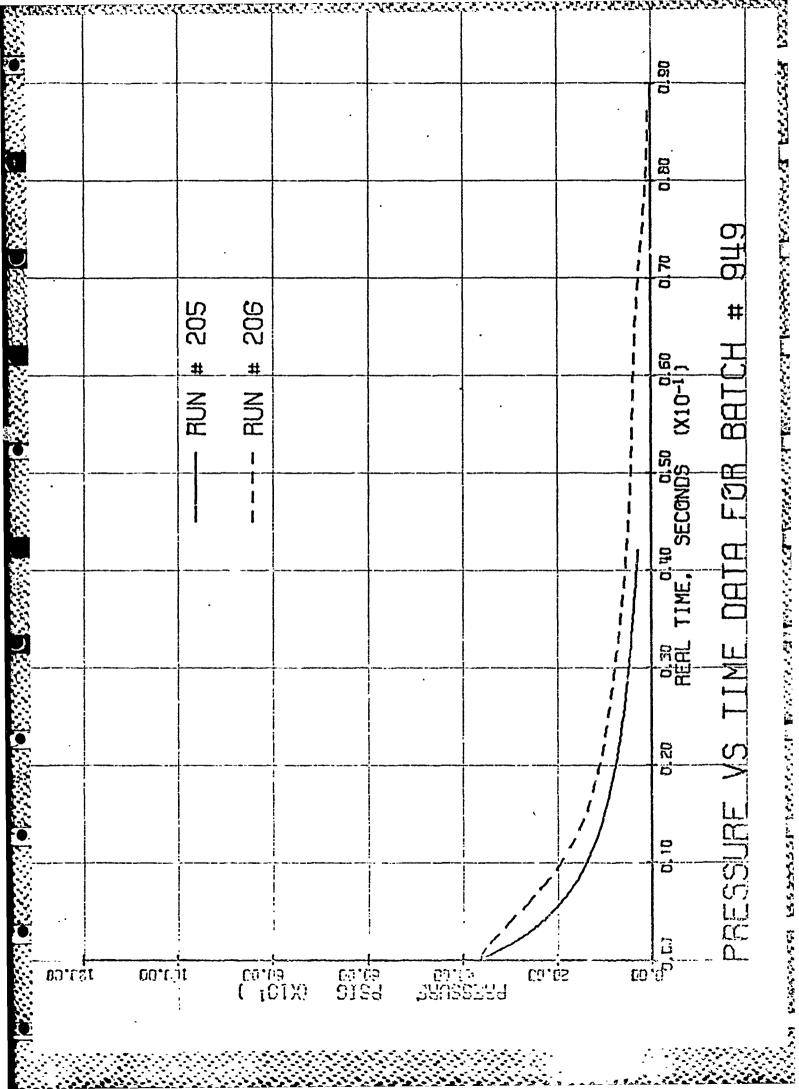
## BATCH # 949 / 175.03 AP, 25.03 PSAA

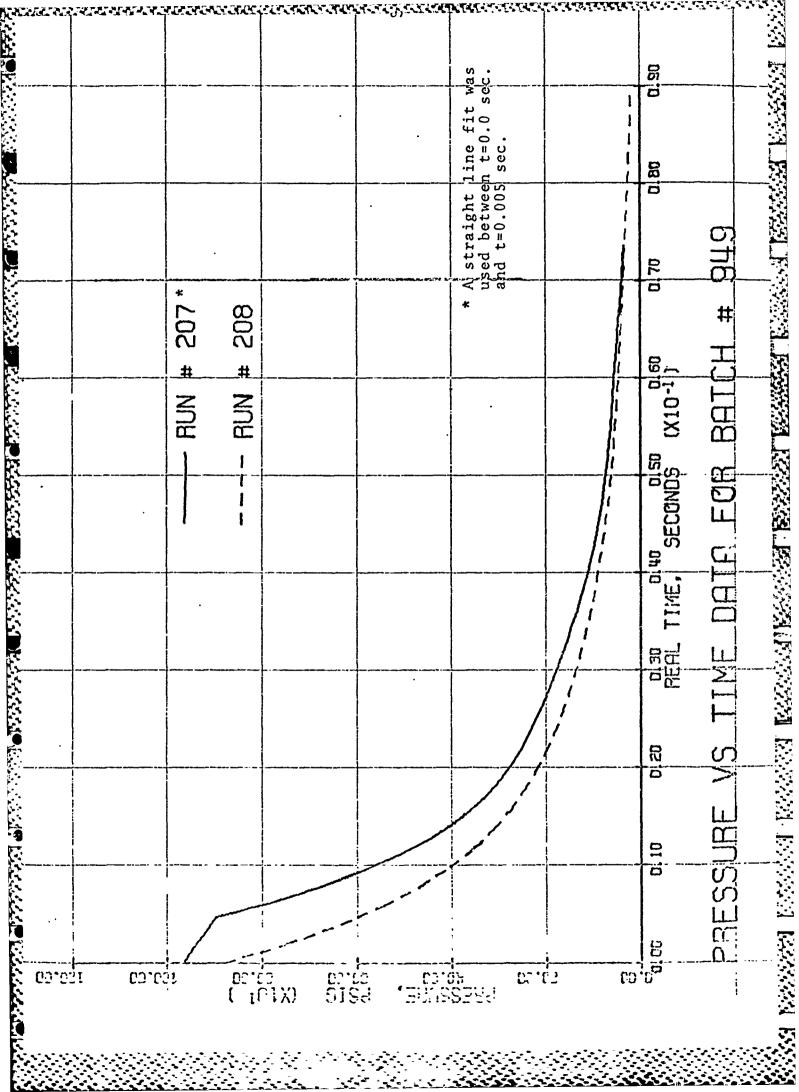
```
DATA FROM RUN # 201
                                         T=(T]ME*PREF*#2]/ALPHA
                             LN(2)=A +3*[ +C*]**2 +0*[**3 +E*]**4
   T 1 '45
           ρ
                  L'4(P)
                                           +F#T##5
 0.0
         480.0
                           A=-0.3532703770-02
                  າ.ວ
                                                D=-0.330072814D-03
 0.0030
         325.0
                -0.3900
                           8=-0.3270910920 00
                                               E=-0.231772572D-02
 0.0053
         230.0
                -0.5131
                           C = 0.113732995) 00 F = 0.2404415270-03
 0.0080
         195.3
                -0.0008
                                  TIME
                                          Р
                                                  LV(P)
 0.0130
         135.7
                -1.2665
                                0.0280
                                          55.0
                                                -2.1655
 0.0140
         75.0
                -1.6193
                                0.0330
                                          30.0
                                                -2.7726
 0.0230
          73.)
                -1.3333
                                0.0480
                                          20.0
                                                -3.1781
DATA TRUM RUM & 2 12
                                         T=(TIME#RREF##2)/ALPHA
                             LM(P)=A +0*T +0*T**2 +0*T**3 +5*T**4
   TIE
                  1.11(2)
                                           +F#T##5 +G#T##6 +H#T##7
 0.0
         545.1
                  0.)
                           0.0031
         395.1
                -3.3219
                           5=-0.7984549430 00 F=-0.1176017940-02
 0.7391
                -0.6340
         275.)
                           C= 0.2521332030 00 G= 0.5590039120-04
 0.1131
        235.5
                - .9774
                           D=-0.7444231070-01 H=-0.1060179290-05
 0.0131
         140.0
                -1.2254
 0.0231
         130.0
                -1.4333
                                  TIR
                                           Þ
                                                  LN(P)
 0.0231
         105.0
                                0.05:1
                -1.5463
                                          40.9
                                               -2.6119
 0.0331
         35.0
                -1.3501
                                0.0531
                                         30.0
                                                -2.3776
                -2.7523
 0.0381
          7).7
                                0.0781
                                          24.0
                                                -3.1227
 0.9431
          53.7
                -2.3305
                                0.0381
                                          20.0
                                                -3.3051
DATA 5-14 71 / 203
                                         T=(T14E+205E##2)/ALPHA
                             1 14 ( 1)= 1 + 1 + 1 + 1 + 1 + 1 + 2 + 7 + 7 + 4 3 + 5 + 7 + 4
   11 MG
                                           +F47445 +347446 +H4T447
                  1.5(2)
 0.0
         515. ;
                 0.3
                           A=-9. (16243672)-32 F=-0.5107273920-02
 0.0023
                -1.2112
                           B=-0.646561767; 00 F= 0.7736396410-03
 0.0043
         22).)
                           C= .5980315730-01 G=-0.4553693470-04
                -3.3539
 0.0073
         143.)
                - ). 5535
                           0 = 0.1753262320-01
                                                H= J.1012091150-05
 0.0123
         132.
                - 3. 3093
 0.017:
         105.3
                -1.)925
                                 , T1 '-
                                           ρ
                                                 [4(P)
 0.0223
         • 3.
                -1.2752
                                .) . 152 :
                                          4).0
                                                -2.0637
 0.0273
                -1.3050
          73.
                                0.0623
                                         32.0
                                                -2.2352
 0.0322
          05.
                -1.5732
                                3.3723
                                         25.0 -2.5337
 0.0423
          5).) -1.:435
                                0.1923
                                          20.0
                                                -2.7555
DATA : D: - J
                                         T=(TIPC# / 공주##2)/교환관리소
                             L .(□)= \ 2007000 (□) + (□) + (□) + (□)
   11.
                  £ (2)
                                           + + # 7 447
                           ス=-0。 ペ12 -- 71 ミューング
                                               D= 0.2962014790-01
                           1-- .75 p (1) 1 1 1 1 -- ... 730°17759 -02
 7. 301 ·
        i ..
 3. 3 343
                           T= 0.52-155 % 3 -31 F= 0.1075543440-63
 3.33.4
                                  11...
                                           >
                                                 t':{2}
 J. . . . . .
         127.
                                         . 5.
                                3. 24.
                                                -1.7/1:
 7. 17:3
                                                -7.1157
                                                -7. (4.),
```





```
DATA FROA RIM # 205
                                          T=(TIME*RREF**2)/ALPHA
                              LN(P)=A +8*T +C*T**2 +0*T**3 +E*T**4
            D
   TIME
                   LN(2)
 0.0
          365.0
                  9.1
                                                  9=-0.3628555449-01
                            A = 0.1644600407-02
 0.9915
          307.7
                 -0.1961
                            8=-0.8436187030 00
                                                 E = 0.3925276330 - 02
                            C= 0.1913125400 00
 0.0033
          230.0
                 -0.4613
                                                 F=-0.1859081680-03
 0.0083
          150.0
                 -0.8393
                                    TIME
                                            ρ
                                                    LN(P)
 0.0138
          105.0
                 -1.2459
                                 0.0288
                                           50.0
                                                 -1.9379
 0.0183
           87.7
                 -1.5179
                                 0.0333
                                           40.0
                                                 -2.2119
 0.0233
           57.0
                 -1.7722
                                 0.0439
                                           25.0
                                                 -2.6310
DATA FROM RUN + 206
                                          T=(11ME#RPEF##2)/ALPHA
                              La(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
            •
   TIME
                   L'1(P)
                                            +F#T##5 +G#T##6 +H#T##7
 0.7
          367.3
                  ).)
                            A= 0.1193668430-01
                                                  E=-0.3301253500-01
 0.0033
          320.0
                 -0.1173
                            B=-0.1439930850 00
                                                 F= 0.4215632650-02
 0.0037
          310.0
                 -0.1495
                            C=-0.3005361500 00
                                                 G=-0.231545859D-03
 0.0055
          250.0
                 -3.3254
                            D= 0.1756754930 00
                                                 H= 0.4950322740-05
 0.0087
          207.0
                 - 3. 5534
 0.0137
                 -7.3399
                                    TIME
                                            ρ
                                                    LN(2)
          143.0
 0.0137
          113.7
                 -1.1154
                                 0.0437
                                           50.0
                                                 -1.9741
 0.0237
          95.0
                 -1.3322
                                 0.0537
                                           40.0
                                                 -2.1972
 0.3281
           33.0
                 -1.5041
                                 0.0737
                                           20.0
                                                  -2.8904
           67.0
                 -1.4814
 0.3337
                                 0.0937
                                           15.0
                                                  -3.1731
DATA FROM - 11: 1/207
                                          T=(TIME=RPEF=#2)/ALPHA
                              L'V(P)=A +3*T +C*T**2 +D*T**3 +F*T**4
            \circ
                   LN(P)
                                            +F#T**5 +G#T**6 +H#T**7
   117:
          255.0
 0.0
                  ).)
                            A = 0.5416327929-02
                                                 F=-0.578478055D-01
 0.0047
          333.)
                 -- . 3753
                            5= 0.2636592040 00 F= 0.7480312600-02
          741.9
                 -7.2308
 0.0052
                            C = -0.7523692510 00
                                                 6 = -0.4165496170 - 03
 0.0112
                            P= 9.324414479) 09
                                                H= 0.9225222299-05
          495.5
                 -7.5375
 0.0147
          477.3
                 -).42)7
 3.0162
          345.0
                 -1.0280
                                    TIME
                                            P
                                                    LV(P)
                                         35.0
 0.0212
          255.0
                                                 -2.4295
                 -1.2924
                                 7.0452
 0.0202
          277.7
                 -1.5304
                                 0.0552
                                           50.0
                                                 -2.7778
                 -1.7662
 0.0312
          1,5.7
                                 0.9652
                                           45.3
                                                 -3.0555
 9.9362
          131.7
                 -2.0045
                                 0.0752
                                           32.0
                                                 -3.4064
DATA F 11 PUT 1 201
                                          T=(TIMEAFPEF##2)/ALPHA
                              11.(7)=1 +647 +647442 +047443 +647444
   TIV-
            -)
                                            +F#T##5 +3#1##6 +H#T##7
                   むくしつ
 J.)
                                 •914:3537al-92 E=-3.3497331050-02
          ~73.3
                   . . .)
 0.0030
                            94-1.500755121J NO
                 -1.717
                                                 F= 0.9600459120-03
 7.3753
                 - 7. . 7- 9
                            C=-- 7.2 (71 123 72 )- 01
                                                G=-2.521744350D-04
                 -2.15%
 3.11:5
          371.1
                             `= 0.35,7^43190-01
                                                 H= 0.1094932167-05
          272.3
 0.0153
                 -1.1 \times 27
                 -1. :21/
 3.3231
                                                    L \ ( 0 )
                                    111.
         1 5.7
 9.025 :
                 -1. : 15
                                  5. 500
                                           52.0
                                                  -2.5172
 C. 3 -
                                 3. 5.
                 -1.1
          11.
                                                 -3.3796
 1.035
          1:0.
                 - .11..
                                                 -2.547
 0. 4.
                                                  -3.5448
```

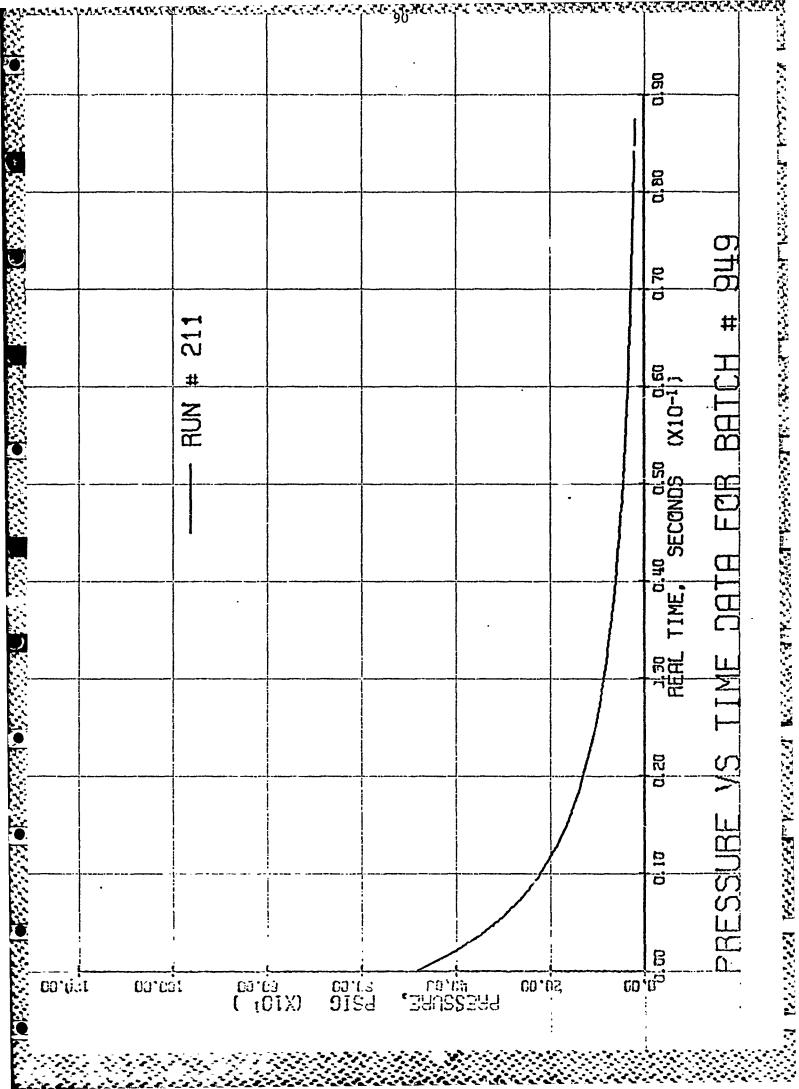




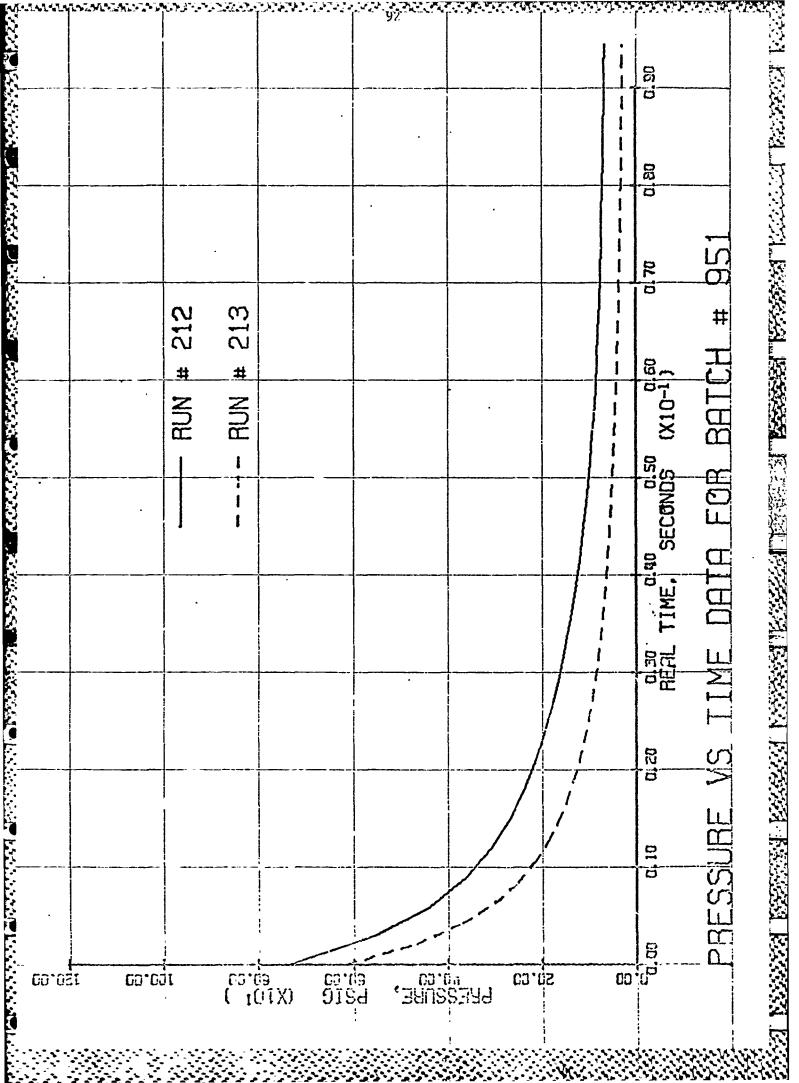
## BATCH + 949 / 75.0% AP, 25.0% PBAA

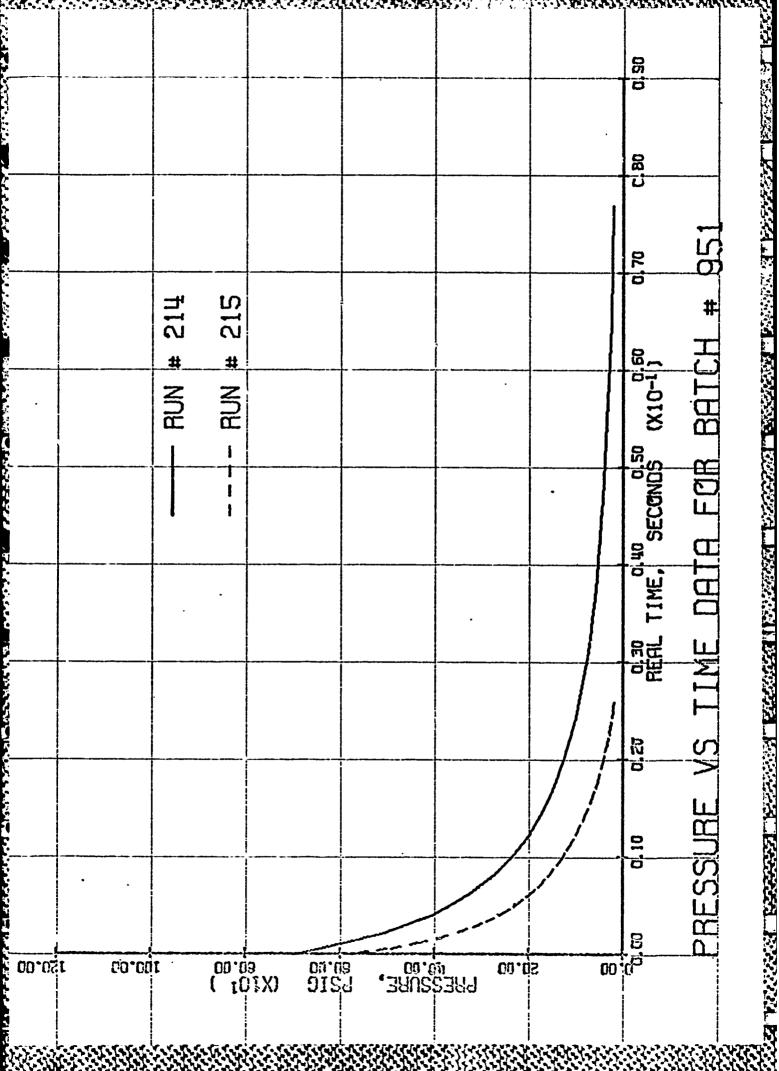
```
DATA FROM RUN # 209
                                        TH(TIME*REEF**2)/ALPHA
                            LA(P)=4 +3*T +C*T**2 +D*T**3 +E#T**4
   TIME
                  LM(P)
                                          +F#T##5 +G#T##6 +H#T##7
                          A= 0.4339379350-02
                                              E = 0.1570726870-01
 0.0
         653.0
                 ).J
                          5=-0.778351779) 00 F=-0.1647302710-02
               -).2997
 0.0029
        495.0
                          400.0
                -9.5123
 0.0052
 0.0070
         332.0
                -0.5492
                          0 = -0.3295972540 - 01
                                              H=-0.187654446D-05
                -1.0030
 0.012)
         245.0
                                          Ъ
         133.0
                -1.2673
 0.0179
                                  T148
                                                 FN(5)
                                0.0479
         150.0
                -1.4937
                                         50.0
                                              -2.4099
 0.0229
                -1.7163
                                0.0075
                                         42.0
                                               -2.7556
 0.0279
         121.0
                                         32.0
                                0.0679
                                               -3.0396
 0.0329
          93.0
                -1.4193
          2).Ú
 0.0379
                -2.1223
                                0.9379
                                         20.0
                                               -3.5086
                                        1=(T1 4F#RREF##2)/ALPH4
C15 : LVA RICKE ATAC
                             LN(P)=4 +3+T +C*T**2 +D*T**3 +5+T**4
                                          +F#1##5 +G#T##6 +H#T##7
   TIME
           5
                  F.1(5)
                           \Delta = 0.8303763901-03 \epsilon = 0.6498430800-02
         340.0
                 7.)
 3.7
                          7=-0.5075366330 00 F=-0.572843092J-03
 0.0015
         730.0
                -0.140+
                          C= 0.1622143701 00 G= 0.2629979020-04
                -3.2719
 0.0032
         640.0
         515.7
                -).4992
                          9=-9.4125746599-01
                                              4=-0.4846625960-06
 0.0055
 0.0115
         395.3
                -0.7302
                                  Lise
                                                 LYKP)
 0.0165
         310.0
                -9.9968
 0.0215
                -1.1921
                                        115.0
         255.0
                                0.0465
                                               -1.4335
                -1.3523
                                0.0615
                                        8U.O
                                               -2.3514
 0.0255
         215.7
        175.0
                -1.5030
                                0.0215
                                         60.0
                                               -2.5391
 0.0315
                -1.1229
                                0.1915
                                         50.0
                                              -2.3214
 0.7365
         150.0
DATA FROM THE
                                        T=(TIME#kCEF##Z)/ALPHA
                211
                             [V(P)=1 +3#T +C#T##2 + #1#1##3 +2#1##4
                                          +F#T#45 +5#T##6
   TIME
                  L'1(?)
                                              E= 0.5069857840-03
         400.0
                          4=-3.1254914113-31
 0.0
                 J.)
                -0.1305
                          | N=-0.6100937659 | 90 | F=-0.5402821110-95
 0.0011
         430.0
                                              5=-0.2949974420-04
                -1.0417
                          C= 0.5572539110-91
 0.0051
 0.0111
        2,7.3
                -7.551
                           D=-0.3517415050-02
 0.0114
         1,0.0
                -1.1102
                                          Ð
 0.7211
         12".7
                -1.40.00
                                  1115
                                                 fA(a)
                                0.0511
                                         42.0
                                              -2,4557
 0.0241
                -1.5774
          21.
          200
 0.0311
                -1.9124
                                0.1511
                                         33.0
                                               -2.5979
                                0.5911
                                         15.9
                                               -3.4964
                -1.101
 0.0911
          · 1.5
```

y O'Enimy's the a								<u> </u>	08.00	
					•			1	0.80	
										849
<u> </u>	209	210						1	0, 70	#
	#	#							0,60 (X10-1)-	HOLE
•	SE I	- RUN								R BAT
		1							SECONDS	A FOR
								-	TIME, 40	DATE
<del></del>								_	E HE	N N N
							<u>/</u>  /		a; 53	L S/
, <del></del>					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				0 10	PRESSURE
 <b>c</b> ara	! 	[ [[	3 11 V1	218	9 63	SZN4	so, os	Ot	. G	
		i įi	JIXJ	018	비병교 - 6	ಶಿವಜಿಡ			i	•



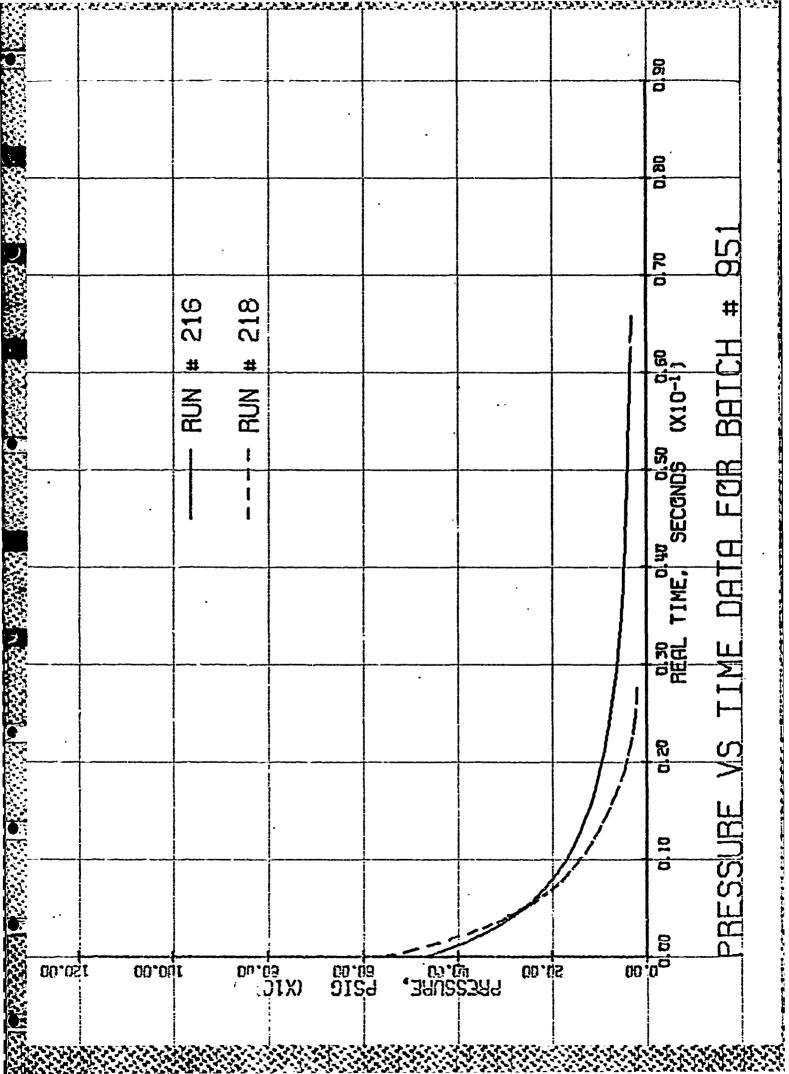
```
BAICH # 951 / 75.0% AP, 25.0% PBAA, 45 MICRON UNIMODAL
                                       T=(T]ME#RREF##2)/ALPHA
DATA 5204 PUN # 212
                            L'V(P)=A +3*T +C*T**2 +0*T**3 +E*T**4
                                         +F4T##5 +G#T##6 +H#T##7
   TIME
           þ
                 (S)(J)
                          A=-3.5265241619-32 E= 9.7344616959-04
 0.0
         733.0
                0.)
                          9=-0.2690795820 00 F=-0.1635890340-05
                -0.4405
 0.0046
         475.0
                                             G = 0.1990175107-07
                          C = 0.2509372017-01
        345.0
                -0.7504
 0.0095
                          D = -3.1770110450 - 02
                                             h = -0.9431293279 - 10
                -1.0055
 0.0145
        270.0
 0.0196
         225.0
                -1.1678
                                 TIME
                                                FA(b)
                -1.3075
 0.0246
         133.0
                                             -2.3273
                               0.0743
                                        72.30
 0.0295
        160.0
                -1.5233
                               0.0945
                                       55.0
                                             -2.4296
 0.0345
        147.7
                -1.5523
                -1.7035
                                       60.0
                                             -2.5096
 0.0445
         110.0
                               9.1145
                               0.1445
                                        55.0
                                              -2.5956
          92.)
                -2.0322
 0.0545
                                       T=(T1#E#RFEF##2)/ALPHA
DATA FROM RUM # 213
                            LM(P)=A +3*T +C*T**2 +D*T**3 +F*T**4
                                         +F*T**5 +G*T**6 +H*T**7
   TIME
                 LM(P)
                          525.7
                0.0
 0.0
                          B=-0.3543971077 00 F=-0.4198403439-05
 0.0027
               -0.3975
         420.0
                          -0.5516
 0.0044
         360.0
                          D=-0.270184255D-02 H=-0.433729392D-09
         255.0
                -0.8580
 0.0077
                -1.1907
 0.0127
         190.0
                                                L:!(P)
                                 TIME
                                         Ð
 0.0177
         140.0
                -1.4361
                                              -2.6091
                               0.0527
                                        46. C
                -1.7549
 0.0227
         107.0
                                        40.0
 0.0277
          90.0
                -1.9379
                               0.0527
                                              -2.7439
                               0.0827
                                        30.0
                                              -3.0355
          73.0
                -2.0310
 0.0327
                                              -3.1055
                               0.1027
                                        28.0
          59.0
                -2.3502
 0.0427
DATA FROM RUN 4 214
                                       T=(TI'E#F?EF##2)/ALPHA
                            L'((2)=4 +3*T +C*T**2 +0*T**3 +F*T**4
                                         4F*T**5 +G*T**6 +H*T**7
   11...
                 LY(P)
                          1= 0.40000955+1-02 - E= 0.3103306330-03
         685.0
                 0.0
 0.0
               -0.3149
                          3=-0.334942307) 00 F=-0.1167767990-04
 0.0023
         500.0
                          C= 0.453772565D-01 G= 0.226966493D-06
                -0.5133
 0.0040
         417.7
                          P=-0.4723533650-02 H=-0.175599352D-03
         300.0
                -0.5256
 0.0079
 0.0000
         232.0
                -1.0000
                                 TIVE
                                         J.
                                                F3(5)
         195.0
                -1.3391
 0.0140
                                        45.0
                                              -2.7229
                               3.3.97
 0.0193
         135.7
                -1.6241
                               9.0590
                                        35.0
                                              -2.9741
                -1.3755
 9.9249
         105.5
                               0.0791
                                        27.0
                                              -3.2306
                -2.1363
          45.0
 0.3243
                                        25.0
                                              -3.3105
          47.5
                -2.4351
                               U. 1790
 3.0390
                                       T=(TI*544,998482)/4L946
0413 FTE / UNIT 215
                            1 .(2)=1 E**T**C+ 2.47*C+ T#*3 +F*1**4
                  EX (2)
                                         4577275
   71:5
                                              0=-0.2121001970-01
                          to 1,955/1/9 /51-12
                               5.9314
                                             F==0.5-37,3940 1-04
 0.5.31
                                                L . (3)
 3. 1 / 7
                                              -2.7175
  . . . .
```





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```
T=(TIME#RREF##Z)/ALPHA
DATA FROM PUN # 216
                           LN(P)=A +3*T +C*T**2 +D*T**3 +F*T**4
                                       +F*T**5 +G*T**5
                L'1(P)
  TIME
          Ģ
                         \Lambda = -0.265606452J - 02 E= 0.1599647000-03
        455.7
                0.0
 0.0
                         3=-0.3523093547 00 F=-0.435791695D-05
               -0.2019
        333.0
 0.0015
                         295.7
 0.0035
               -0.4551
                         0=-0.2995124117-02
        240.)
               -0.5514
 9.9053
               -0.9053
 0.0035
        133.0
                                              LN(P)
                                TIME
               -1.2363
        135.0
 0.0135
                                            -2.2798
                              0.0335
                                      48.0
               -1.5571
 0.0135
         93.0
                                            -2.4532
               -1.7500
                              0.0485
                                      47.0
         80.0
 0.0235
                                            -2.3098
               -1.9675
                              0.0685
                                      23.0
 0.0235
         65.0
                                     T=(TIME*RREF##2)/ALPHA
2114 F204 PJW : 218
                           LN(P)=4 +8+T +C+T++2 +D+T++3 +E+T++4
                                        +F*T**5
   TIME
                 LV(P)
                         2=-9.2036745700-02 0=0.7424951390-02
                0.3
 0.0
        555.0
                         3=-0.4115080930 00 8=-0.1343202370-02
               -3.2322
 0.0014
        44).3
                                            F= 0.644018537D-04
                         C= 0.4349369119-02
       3,35.1
               -0.5937
 0.0037
                                1145
                                       p
                                             INTP
               -0.3383
        243.0
 0.0055
                                            -2.4069
                                       50.0
                              0.0137
        152.0
               -1.2314
 2.2037
                                            -3.1001
                                       25.0
                              0.0237
        120.0
               -1.5315
 0.0115
                                            -3.3232
                                       20.0
               -1.341c
                              2.0237
 0.0137
          33.7
                                      T=(TIME#RPEF##21/ALPHA
OATA FRO4 PUN # 219
                           LN(P)=A +8*T +C*T**2 +0*T**3 +F*T**4
                                        +F#T##5 +G#T##6 +H#T##7
                 LY(P)
   TIME
                         0.0
        1945.9
                0.0
                         n=- ).42481327#1 00 F=-0.9750538610-05
        910.5
               -9.1333
 0.0003
                                            G= 0.1628555040-06
                         C= 0.4999918730-01
         753.3
               -3.3195
 0.0019
                         D=-0.4359925510-02 H=-0.1078277200-08
                -3.4595
 0.0031
        560.0
               -0.7575
 3.3354
        435.0
                                              LV(P)
                                        P
                                II va
        33). 1
               -1.0116
 0.0051
                                       55.Ù
                              0.0408
                                            -2.7323
               -1.2413
         302.0
 0.0103
                                       45.0
                                            -3.1451
               -1.5591
                              0.0603
 0.7157
         222.7
                                            -3.4360
                              9.0303
                                       32.0
         10).)
                -1.3756
 0.020:
                                            -3.7320
                              0.1103
                                       25.0
                -2.3663
         93.3
 0.)303
                                      T=(TIME###EF##2)/M PHA
-1-414 6974 YJ: + 21 3A
                           [N(P)=2 +147 +(#]##2 +7#]##3 +5#]##4
                                        +5 #7 ##5 +6#7##6 +H#T##7
           2
                  [ !(P)
   11.0
                         0:1.7
 0.0
                 3.0
                         8=+0.4207325931 00 F=-0.1130237550-64
                -0.0525
 9.0039
         533.0
                         -1.0525
         313.7
 0.7243
                          7=-3.45379=7393-32 -4=-0.1552357170-09
 0.0139
         21 2.0
                -1.4-51
                -1.7500
        190.3
 0.0157
                                        ٩
                                               L v(2)
                                TI 15
         115.
                -2.19:13
 0.0233
                              9.1139
                                       25.0 -3.5153
          20. l
 0.0330
                -2.4532
                                             -0.1080
                              0.0007
                                     234.2
         57.3
                -2.7575
 0.0439
                                      754.7
                               .2714
                                            -0.2005
          3.03
                -7.1773
  7.743.
                              9.0025
                                      629.5
                                             -0.3395
                -2.3330
  0.0330
          23.
```

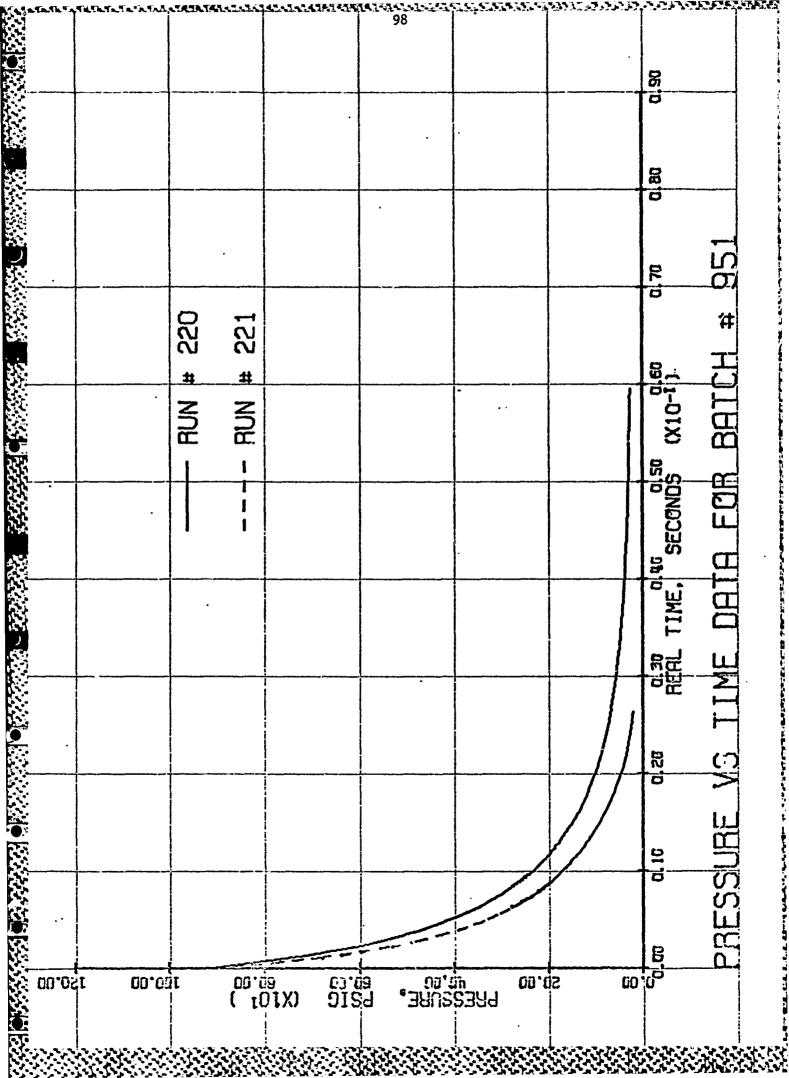


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second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second 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	951	#	FOR BATCH	DATA F	IMF D	VS T	PRESSURE	PRE	
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T=(TIME*RREF##2)/ALPHA

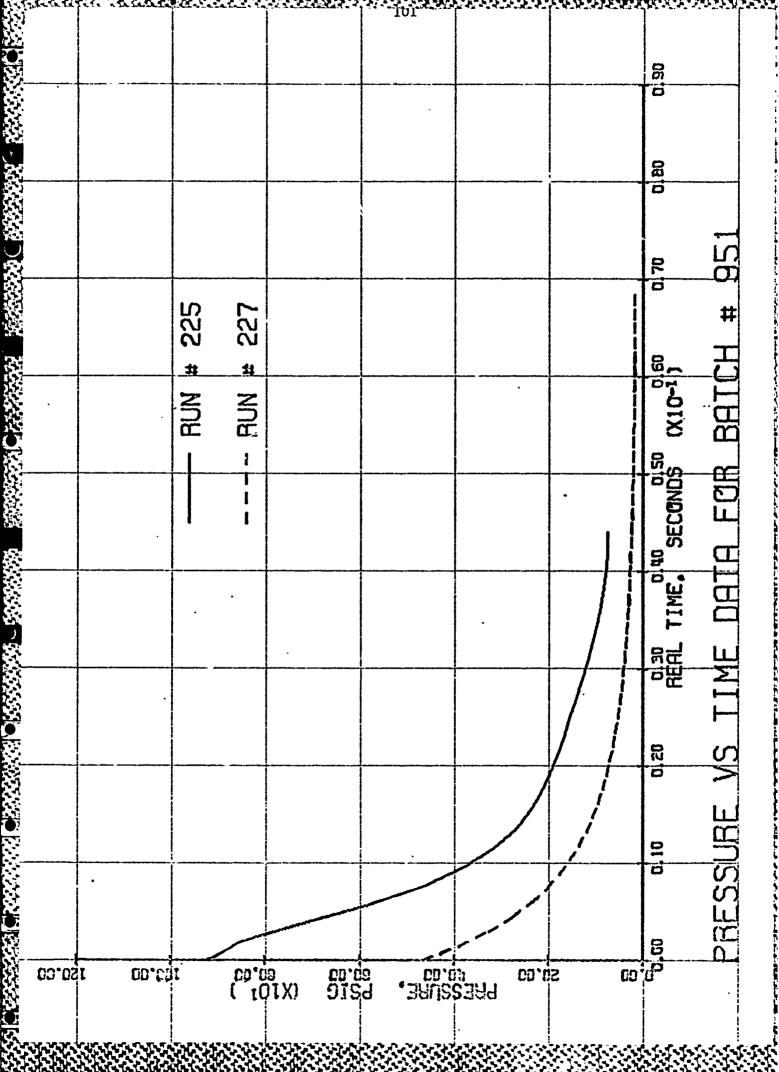
DATA FROM RUN # 220

```
LN(P)=A +6*T +C*T**2 +D*T**3 +E*T**4
   TIME
            c
                   LN(P)
                                            +F#T##5 +G#T##5 +H#T##7
 0.0
          992.9
                            A= 0.6075946220-02
                  0.0
                                                 E= 0.9959530970-03
 0.0020
          625.0
                 -0.3659
                            B=-0.5115434510 00 F=-0.5212605520-04
 0.0070
          317.7
                 -1.0680
                           C = 0.7313634000-01 G = 0.1420062010-05
 0.0120
          195.0
                 -1.5316
                           D=-0.1072970900-01 H=-0.155681982D-07
 0.0170
          125.0
                 -1.9763
 0.0220
          35.0
                 -2.3520
                                   TIME
                                           P
                                                   LN(P)
 0.0270
          65.0
                 -2.6302
                                                 -3.6591
                                 0.0520
                                          23.0
 0.0327
          5).9
                 -2.3926
                                 0.0011
                                         732.0
                                                -0.2089
 0.0423
          35.0
                 -3.2493
                                 0.6017
                                         658.0
                                                 -3.3154
 0.0520
          23.0
                 -3.4724
                                 0.0030
                                         534.7
                                                 -0.5136
DATA FROM RUY # 221
                                         T={TIME#FREFF#2}/&LPHA
                             LN(P)=A +3#T +C#T##2 +D#T##3 +F#T##4
   TIVE
            P
                  FA(5)
                                           +F*T**5 +G*T**6 +H*T**7
 0.0
          903.0
                  0.0
                           A= 0.2913771650-02
                                               E= 0.3093062240-02
 0.0024
          520.0
                 -0.5519
                           B=-0.5729641340 00 F=-0.2098430350-03
 0:0074
         235.0
                 -1.3451
                           C= 0.1362148200 00 G= 0.5562574600-05
 0.0124
         125.7
                 -1.9774
                           D=-0.2666.335940-01
                                               H= 0.6375986910-07
 0.0174
          65.0
                 -2.5313
                 -3.3400
 0.9224
          32.0
                                   TIME
                                           P
                                                   LH(P)
 0.0274
          2).3
                 -3.3100
                                 0.0024
                                         513.9
                                                -0.5537
 0.0005
         792.3
                 -0.1301
                                 0.0037
                                         411.1
                                                -0.7858
 0.0012
         453.1
                 -0.3013
                                 0.0049
                                         330.4
                                                -1.0055
         520.0
 0.0018
                 -0.4427
                                 0.0062
                                         279.0
                                                -1.1745
DATA FROM RUY # 222
                                         T=(TIME=PREF==2)/ALPHA
                             LN(P)=4 +34T +C+T+42 +D+T++3 +E+T++4
   TIME
           ?
                   LA(B)
                                           +F#T##5
 0.0
         777.3
                  3.3
                           A= 0.1323897590-01
                                                0=-0.2779805620-01
 0.0012
         543.7
                -0.2595
                           3=-0.6901994040 00 E= 0.2440785480-02
                -J.5973
 0.0027
         335.7
                           C= 0.1394632315 00
                                                F=-0.7521103300-04
 0.0040
         300.0
                 -0.9473
                                  11"E
                                           ø
                                                  LN(P)
 9.0077
         175.0
                -1.3363
                                          69.0 -2.4567
                                0.0143
 9.0094
         147.3
                 -1.5094
                                0.0177
                                          33.0
                                                -2.9135
 0.3127
          50.0
                -2.1691
                                0.0227
                                          20.0
                                                -3.5553
DATA F254 AJN 4 224
                                         T={TIVE#FREF##2}/ALPHA
                             LN(P)=A +3AT +C#T##2 +D#T##3 +5#T##4
   TIVE
                  L :(?)
                                           +5#1##5
 3.3
         5)).
                  5.3
                           A= 0.1459.54640-02
                                                0=-0.4777511510-02
 0.0020
                -0.3557
         427.7
                           3=-).4925843310 00 E= 0.3920144670-03
 3.3043
         277.0
                -3.7729
                           r= 0.0043147390-01
                                                F=-0.3933521140-05
 3.30%5
         223...
                -1.0033
                                  TIE
                                           P
                                                  LW(P)
 0.0093
         150.3
                -1.5213
                                0.0193
                                          55.0
                                                -2.2225
 3.0127
         120.0
                -1.5094
                                0.0249
                                          43.0
                                                -2.4357
 0.0143
          93.3
                -1.3120
                                9.0343
                                          20.)
                                                -3.4012
```



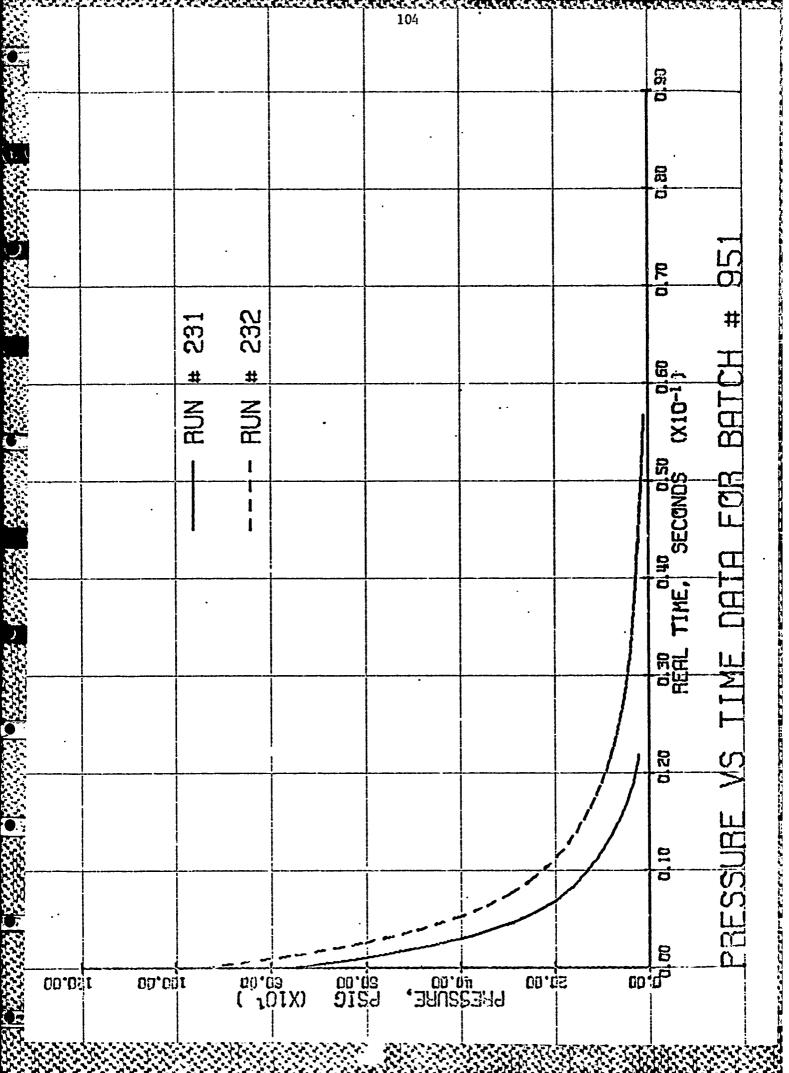
						•			86	
									08.0	
									70	351
		222	224 1	,					6	#
	•	HUN #	BUN #				·	·	(X10-1)	ВЯТСН
										A FOR
				-					G'40 G'50	eth (
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				-						JRE V
									מ	PRESSU
120.00	00*00	E	00'0	9 (X)	318 69.69	URE, P	SSER9	C0, GS	00 is	
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```
DATA FROM RUN # 225
                                        T=(TIME*RREF**2)/ALPH4
                             L'v(P)=A +8*T +C*T**2 +0*T**3 +E*T**4
   TIME
           9
                                          +F*T**5 +G*T**6 +H*T**7
                  Ly(2)
 0.0
         915.0
                 0.0
                          A= 0.3475392660-02 E=-0.3212427610-02
 0.0014
                          \beta = -0.5139600030 - 02 F= 0.1627277040 - 03
         300.0
                -0.0420
 0.0027
         315.0
                -0.1157
                          C = -0.1423271849 00 G = -0.4003468430 - 05
 0.0037
         735.0
                -7.1532
                          J= 0.3193933779-01
                                              H= 0.3763821240-07
 0.0050
         550.0
                -0.4559
 0.0037
         405.0
                -0.3150
                                          ည
                                  TIME
                                                 [7(0)
 9.0115
         323.0
                -1.3506
                               0.0337
                                       100.0
                                               -2.2138
 0.9137
         20).0
                -1.5206
                               0.0437
                                        73.0
                                               -2.5235
 0.0237
         160.0
                -1.7433
                               0.9637
                                         45.1)
                                               -3.0123
 7350.0
         127.3
                -1.9747
                               0.0937
                                         30.0
                                               -3.4177
DATA FROM P.F. ~ 227
                                        T=(TIME=PREF==2)/ALPH4
                            LN(P)=A +B#T +C#T##2 +D#T##3 4E#T##4
   TIVE
                  F4(5)
                                          +F *T * +5
 0.0
         477.0
                 3.2
                          A=-0.1125526810-01
                                              0=-0.4154104450-03
                          R=-0.3152012127 00 F= 0.9815371780+05
 0.0013
         355.3
                -0.2523
 0.0053
         215.0
                -0.7321
                          C= 0.1315734500-01 F=-0.9688549950-07
                                        P
 0.0113
         135.0
                                 TIPE
                -1.2475
                                                LN(P)
 0.0168
          90.0
                -1.6529
                               0.0418
                                         25.0
                                               -2.9337
 0.0213
          62.0
                -2.7256
                               0.0518
                                         20.0
                                               -3.1570
 0.0313
          33.0
                -2.5151
                               0.0718
                                        13.0
                                               -3.2524
DATA FRO! RUN # 228
                                       T=(TIME=RREF==2)/ALPHA
                            LN(P)=4 +8*T +C*T**2 +D*T**3 +E*T**4
   T1':5
           Ç
                 F1(5)
                                          +F+T**5
 0.0
         493.9
                                              0= 0.5194943840-02
                 0.0
                          A=-0.1049923379-01
 0.0005
                -0.1823
         415.0
                          0.0013
         343.3
                -0.3317
                          C= 0.2133794797-01
                                               F= 0.481459143D-04
         300.0
 0.0025
                -0.5066
                                 7175
                                         P
                                                 LN(P)
 0.0045
                               0.0103
         223.3
                -0.3170
                                        92.0
                                              -1.6833
 3.0053
                               0.0150
        150.7
                -1.0175
                                        50.0
                                              -2.2986
 0.0059
         143.0
                -1.2590
                               0.0203
                                        25.0
                                               -2.9917
DATA F114 (1. : 23)
                                       T={TIME#RPFF##2}/ALPHA
                            L':(P)-A +3*T +C*T**2 +0*T**3 +6*T**4
   TI "-
                 년.(2)
                                          +F#T##5 +G#T##6
 0.0
         505.0
                 1.7
                          (=-0.247004752)-01 F= 0.3323310590-03
 3.6322
         371.2
                -1.3954
                          0.0034
         200.3
                -3.5592
                          (= 1.4:303+1250-D)
                                              S= 0.1327697330-06
0.0072
         143.3
                -0.9775
                          D=-7.511121 フッチワー02
 3.0003
         153.3
                -1.1404
         12:00
                               · TIME
0.0121
                -1.4371
                                         Э
                                                [\(\2\)
 0.017?
          30.0
                -1.1425
                               0.3422
                                              -2.3234
                                        30.0
 0.9222
          31.7
                -2.1312
                               0.0522
                                              -3.0057
                                        23.5
 0.0322
          13. 3
                -2.5357
                               0.0722
                                        20.0
                                              -3.2298
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BATCH # 951 / 75.03 AP, 25.03 PBAA,
                                              45 MICRON UNIMODAL
 DATA FRTY RUY # 231
                                         TH(TIME#RPEF##2)/ALPHA
                             LN(2)=A +8*T +C*T**2 +0*T**3 +E*1**4
    TIME
                   LN(2)
                                           +F*T**5
  0.0
          750.0
                  0.0
                           A=-0.5283756960-02
                                                b= 0.2723535740-01
  0.0007
          540.0
                 -7.1535
                           8=-0.5124379230 00
                                                E=-0.4505206700-02
  0.0027
          420.0
                 -0.5798
                           C=-0.3220176700-01
                                                F= 0.2253608170-03
  0.3345
          300.0
                 -0.3163
                                   TIME
                                           Đ
                                                  L.V(2)
  0.0077
          175.0
                 -1.4553
                                0.0155
                                         50.0
                                                -2.5257
  0.0094
          140.0
                 -1.,734
                                0.0177
                                         40.0
                                                -2.9312
  0.0127
           33.7
                 -7.1427
                                0.0227
                                          29.0
                                               -3.5243
DATA FRUIT PJ: # 232
                                        I=(TIME#RPEF##2)/ALPHA
                             LN(P)=A +8*T +C*T**2 +0*T**3 +E*T**4
   TIME
                   L'I(P)
                                           +F#T#¥5 +3#T##6 +H#T##7
 0.0
          933.0
                  2.1
                           A= 0.2079357720-02
                                               F=-0.9492193000-03
 0.0010
                           F=-0.4596440590 00 F= 0.3094257910-04
          900.0
                 -0.1591
 0.9929
         645.0
                           C= 0.2206693749-01 G=-0.3060603200-05
                 -0.3745
 0.0035
          500.0
                           D= 0.3737335910-02 H= 0.430786717D-07
                 -0.5231
 0.0063
          400.0
                 -0.3523
 0.0070
         293.3
                -1.1548
                                  TIME
                                          Р
                                                 LN(P)
 0.9082
         260.0
                -1.2831
                                0.0270
                                         55.0
                                               -2.3364
 0.0120
         155.0
                -1.5234
                                0.0320
                                         40.0
                                               -3.1549
 0.0170
          120.0
                -2.0563
                                0.0420
                                         25.0
                                               -3.5249
 0.0220
          73.3
                -2.4870
                                0.9620
                                         20.0
                                               -3.3430
DATA FROM RUN # 233
                                        T=(TIME#PREF##2)/ALPHA
                             LN(P)=A +5#T +C#T##2 +3#1##3 +E#T##4
   TIME
           ?
                  LR(P)
                                          +F#T##5
 0.0
        .707.5
                 0.0
                           4= 0.2145905170-02
                                               5=-0.2372322175-02
 0.0017
                           540.3
                -0.2695
 0.0040
        370.0
                ~9.6475
                           C= 0.3143794690-01
                                               F=-0.1403050200-05
 0.0090
         200.0
                -1.2235
                                         ρ.
                                  37175
                                                 F.1(5)
 0.0140
         127.0
                -1.7103
                                0.0349
                                         35.0
                                               -3.0057
 0.0190
        25.0
                -2.1134
                                0.0440
                                         25.0
                                               -3.3422
 0.0240
          50.0
                -2.4647
                                0.0540
                                         20.0
                                               -3.5553
DATA FROM 131, 1 234
                                        T=(TINF#RREF##2)/ALPHA
                            LN(P)=4 +R#T +C#T##2 +D#T##3 +E#1##4
   TIVE
           \circ
                  1. (9)
                                          +F#T##5
0.0
         373.7
                 0.0
                          A=-0.8250900040-02
                                               J= 0.3257528149-01
0.0000
        300.0
                -9.1953
                          R=-0.2565154550 00
                                               5=-0.1356319290-01
0.001%
        210.0
                -3.7394
                          0=-J.1321267650 00 F= 0.7390769490-03
0.0032
         200.0
                - 3.5003
                                 11 0=
                                         ρ
                                                LH(P)
9.0044
        150.0
                -0.7239
                               0.0122
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                                              -1.7647
0.004%
        127.3
                -1.3114
                               0.0144
                                        +2.7
                                              -2.0514
0.0094
          33.7
                -1.3564
                               0.0194
                                        20.0
                                               -2.3334
```



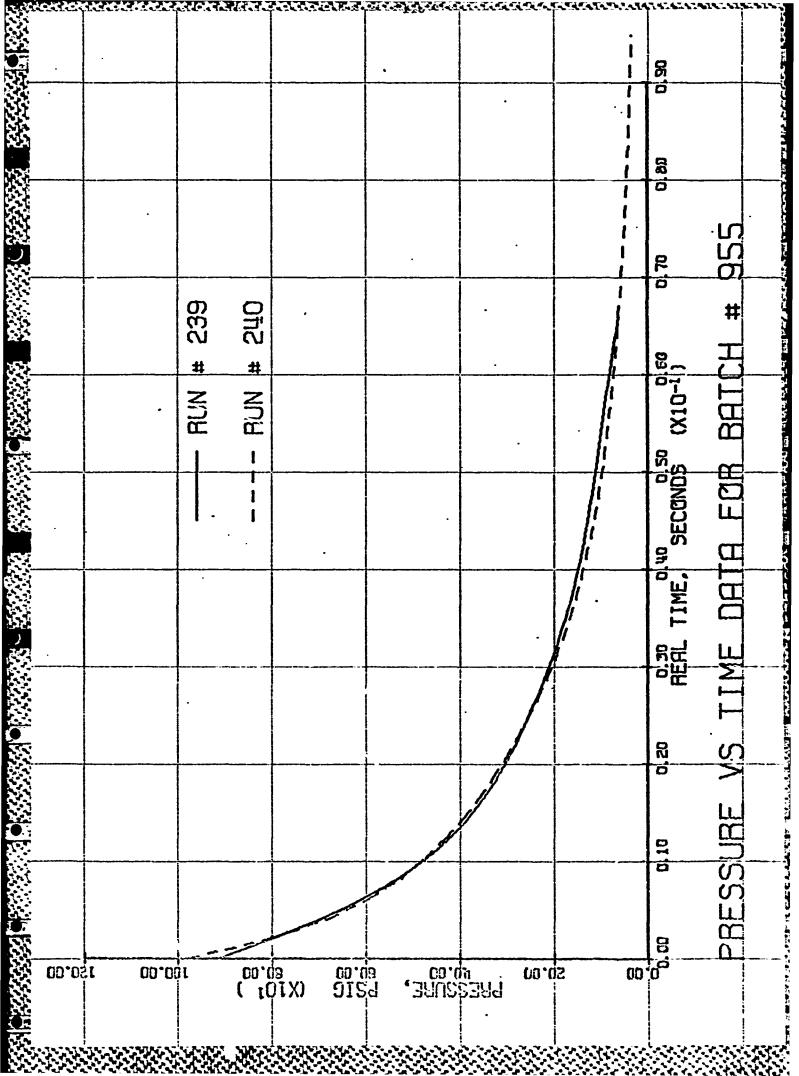
	ian area		~=~1.00				105				10.5		Salak	
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		RUN	NO.						•			(X10-1)	BAT	
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```
BATCH # 955 / 75.05 MP, 25.0% PBMA, 130 MICRON UNIMODAL
DATA FROM RUN # 235
                                      T=(TIME#RREFF##2)/ALPHA
                           1 V(P)=1 +3*T +0*T**2 +0*T**3 +6*T**4
                                        +F*T**5 +G*T**6 +H*T**7
           2
   TIME
                 LY(P)
 0.0
         740.0
                 3.3
                         A=-0.1755754350-22 \Gamma= 0.1904513730-01
 9.0015
        600.0
               -7.2097
                         B=-0.6734611690 00 F=-0.2786021420-02
 0.0031
        593.9
               -2.3920
                         C= 0.199097905) 00 G= 0.2152930229-03
 0.0053
                         D=-0.7650961470-01 H=-0.5756092170-05
        427.2
               -0.6152
 0.0031
         315.1
               -0.3363
 0.0131
        205.0
               -1.2335
                                        p
                                              LVIPI
                                1176
 0.0131
        142.3
               -1.450A
                              0.0381
                                       35.0 -3.0513
         100.0
               -2.3015
                              J.0431
 0.0221
                                       20.0
                                            -3.5109
 0.0231
          70.0
               -2.3582
                              0.0008
                                     653.6
                                             -0.1155
 0.0331
          50.7
               -2.5945
                              0.0021
                                      547.5
                                            -0.3011
DATA FROM PUN 4 235
                                      T=(TIAE#RREF##2)/ALPHA
                           L'4(P)=4 +3#T +C#T##2 +D#T##3 +E#T##4
   TIME
           Ð
                 LV(P)
                                        +5+T++5 +G+T++6 +:4+7**7
         330.0
                         0.0
                 0.0
 0.7734
        545.0
                         4=-0.3753526130 00 F= 0.850534443D-03
                -0.2522
         440.0
 0.0034
               -0.6347
                         9.0134
                         D= 0.4625373137-01 H= 0.7197369570-05
        317.7
               -0.9349
 0.0134
        235.7
               -1.2613
 0.0234
        202.3
                -1.4132
                                TIME
                                        ρ
                                              LN(P)
 0.0224
        145.3
                -1.7447
                              0.0434
                                       54.0
                                            -2.5525
 0.0334
        117.3
               -1.9593
                              0.9534
                                      55.0
                                            -2.7141
 0.0384
         25.3
                                      35.0
               -2.1675
                              0.0534
                                             -3.1551
 0.0434
          74.7
                -2.3647
                              0.0734
                                       25.0
                                             -3.5026
DATA FROM RUY # 237
                                      T=(TIME#RREF##2)/ALPHA
                           LN(P)=A +8#T +C#T##2 +9#T##3 +E#T##4
                                        +F+T++5 +3*T+#6 +H+T++7
   1135
                 LI(P)
         915.3
                         A=-0.4049452009-92 F=0.3277042649-03
 0.0
                 9.9
                         3=-0.400550780; 00 F=-0.7812931970-06
        705.0
 3.3315
               -0.1406
        5:2.3
               -3.4374
                         C= 0.584480427)-01 G=-0.4142062330-06
 0.0055
                         £=-0.3657970956-02 H= 0.9924315569-03
 0.0115
        430.3
                -0.7551
  .0155
         345.3
                -0.7754
         235.1
                                TIRE
                                       Þ
                                               F3(2)
 3.0215
               -1.1554
 0.0265
        233.3
               -1.3467
                              0.9565
                                       90.0
                                            -2.3191
 0.0315
        211.3
               -1.5235
                              0.0545
                                      72.0
                                             -2.5423
               -1.7062
 0.0355
         157.0
                              0.0855
                                       45.0
                                             -3.0123
        123.
                              0.1165
                                       25.0
                                             -3.6000
 :).)435
               -2.0514
DATA F131 - Jr. = 273
                                      T=(TIME=RFEF##2)/ALPHA
                           [N(P)=4 +96T +66T#02 +067693 +56T#84
                 1,3(2)
                                        +F#T##5 +3#T##5 +H#T##7
   T1 ':
           >
 7.3
        1035.0
                 ٦. 🤄
                         ^77.
                         E=-0.4295696321 00 F=-0.3254031720-04
 0.0015
                -3.0354
        505.0
                         3.1965
                -).5075
         457. 1
                         P=-0.1314003390-02 H=-0.6415294750-03
 0.0115
                47.79.54
         372.5
 0.0155
                -0.9033
 0.1215
         302.
                -1.2123
                                        )
                                11...
                                               F.131
                                       92.0
 0.0245
         245.)
                -1.4115
                              3.0565
                                             -2.3910
         771.
 0.0515
                              3.07.3
                                       40.0
                -1.0144
                                            -2.3134
                                       42.0
 3. 1745
         172.7
                -1.7653
                              0.09:5
                                             -3.1751
                                       25.4
                                             -3.5336
 0. 3055
         1? 3
                -2.1251
                              0.12:5
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DATA FROM RUN # 239
                                      THITIME PRREE ##21/ALPHA
                           EN(P)=4 +3*T +C*T**2 +0*T**3 +5*T**4
   TIME
          P
                 LHIP
                                        +F#T##5 +S#T##6 +H#T##7
 9.3
         915.0
                0.9
                         0.2057
         551.5
               -0.3397
                        8=-0.2739004287 00 F= 0.5541262910-03
 0.0100
         475.3
                -0.5539
                         C="0.4527413220-01 S=-0.2632003070-04
 0.0150
         377.7
                -0.3849
                         D= 0.2307565640-01 H= 0.4849962400-06
 0.0200
         300.1
                . 1.1147
 0.0250
         243.9
               -1.3020
                                TIME
                                        P
                                              LN(P)
 0.0307
         212.3
               -1.4610
                              0.0512
                                     109.8
                                             -2.1203
 0.0350
         175.7
               -1.5503
                              0.0569
                                       90.a
                                             -2.3106
 0.0400
         145.4
                -1.3326
                              0.0525
                                       73.2
                                             -2.5257
 0.0455
               -1.3951
         124.4
                              0.0587
                                       55.6
                                             -2.3002
DATA FROM RUN # 240
                                      T=(TIME#RREF##2)/ALPHA
                           LM(P)=A +3+T +C+T+=2 +D+T++3 +E+T++4
          .>
   11.4=
                 Larpi
                                        +F#T##5 +G#T##5 +H#T##7
                        0.0
         375.3
                2.3
 0.0040
         500.0
               -3.4355
                        C= 0.1040903770 00 G= 0.3231147070-05
 0.0110
         455.0
               -3.7621
 0.0150
         365.0
               -0.3925
                         D=-0.1951371020-01 H=-0.3759098670-07
         203.0
 0.0210
               -1.1353
 0.0250
         242.0
               -1.3935
                                TIME
                                             - FA(5)
 0.0310
        195.0
               -1.5094
                              0.0510
                                       95.0 -2.3296
 0.0360
         163.0
               -1.8073
                              0.0610
                                       72.9
                                            -2.5058
 0.3413
         133.0
               -1.9921
                              0.0310
                                       45.3
                                             -3.075E
 0.3450
         112.0
               -2.1639
                              0.1010
                                       30.0
                                             -3.4812
DATA FROM RUN # 241
                                      T={TIME*RREF##2}/ALPHA
                           LN(P)=A +B#T +C#T##2 +D#T##3 +E#T##4
          ס
   TIME
                 F.1(b)
                                        +F + T + + 5 + 5 + T + +6 + H + T + +7
         423.3
 0.0
                ി. )
                        Λ=-0.6439454917-03 E= 0.1266643337-02
 0.0020
                        2=-0.3442172830 00 F=-0.7706217950-04
               -9.2113
         347.3
 0.0073
         2:0.3
               -2.4735
                         0.0140
         150.3
               -3.7932
                         P=-0.1087868719-01 H=-0.2660343680-07
 0.0240
         125.0
               -1.2119
 0.0290
        105.0
               -1.3353
                                1145
                                        D
                                              LAIPI
 0.0390
         75.0
               -1.7223
                              J.9790
                                       32.9 -2.5745
 0.0400
         52.2
               -1.9450
                              0.0390
                                      25.0 -2.3214
 0.059)
         47.7
               -2.1434
                              0.0999
                                       22.0
                                             -2.9492
 0.0090
         43.0
               -2.3514
                              0.1000
                                       20.0
                                             -3.0445
DATA FROM 231 1 242
                                      T=(T145*0F3F**2)/419H4
                           Lu(P)=4 +1 *T +6#T##2 +1**T##3 +6#T##4
  TI
          .
                 1:(0)
                                        +F*T**5 +G*T**6 +H*T**7
 0.0
         5-0.
                0.5
                         A=-0.2135374950-32 F= 0.2345255770-03
                         P=-0.3020104330 00 F=-0.1037143010-04
 0.00%1
         343.7
               -3.3341
 0.0131
         280.0
               -3.7232
                         C= 0.2555805427-01 G= 0.2516520160-05
 0.0141
         2:5.7
               -3.3-19
                         C=-0.2975321030-02 H=-0.2303073870-03
 0.0261
        155.0
               -1.2571
               -1.5023
 3.0301
         115.0
                                       Þ
                                TI
                                              L:(0)
         13.3
 0.0451
               -1.2357
                              0.0931
                                      35.0 -2.8977
 0.0561
         71.)
               -2.1303
                                      30.3 -2.9513
                              9.1951
 0.5461
         54.7
               -2.3020
                              0.1151
                                       20.3
                                             -3.1049
 0.07:1
         49. 1
               -2.4913
                              0.1341
                                       27.0
                                             -3.3573
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130 MICROIL UNI 40DAL
  BATCH # 955 / 75.00 AP, 25.00 PRAA.
                                        T=(TIME#RREF##2)/ALPHA
DATA FROM FUN # 243
                            LH(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
                                          +F#T##5 +G#1##6 +H#T##7
                  FA(b)
   TIME
           Э
                           A=-0.2539454520-02
                                               E = 0.1231621970-03
0.0
         425.0
                 0.)
                                               F=-0.710237546D-05
                           F=-0.2569045240 00
                -0.3483
         300.0
 0.0060
                           C = 0.1698023039-01
                                               G= 0.2051644280-06
 0.0100
         250.0
                -0.5366
                                               H=-0.2270526770-08
                           D=-0.1376135007-02
 0.0200
         165.7
                -0.9451
                -1.3072
 0.0300
         115.0
                                           P
                                                  LN(P)
          99.3
                -1.5523
                                  TIME
 0.0400
                                         39.0
                                               -2.3285
                                0.0900
 0.0500
          73.0
                -1.7616
                                0.1000
                                          35.0
                                                -2.4957
 0.0500
          50.0
                -1.9577
                                                -2.5364
          52.0
                -2.1008
                                0.1100
                                          32.0
 9.2703
                                                -2.6509
                -2.2454
                                0.1200
                                          30.0
          45.3
 0.0300
                                        T=(TIME#RREF##2)/ALPHA
94T4 FR34 RUN = 245
                             LV(?)=A +9+T +C+T++2 +0+T++3 +5+T++4
                                           +F*T**5 +G*T**6 +H*T**7
   TIME
           Ç
                  L*(P)
                                               E= 0.2493579350-03
                           \Delta = -0.9097471320-03
         505.0
                  3.)
 9.0
                           8=-J.3021461690 00 F=-0.120724765D-04
 0.0055
         355.)
                 -0.3524
                                                G= 0.305505829D-06
                - 3.5203
                           C = 0.2713490449-01
         300.0
 0.1039
                           D=-0.305291529D-02
                                               H=-0.3119513370-09
 0.0155
         220.0
                -0.1309
         147.3
                -1.2341
 0.0255
                                           P
         107.0
                -1.5517
                                  TIME
                                                  LN(P)
 0.0350
                                0.0355
                                          35.0
                                                -2.6692
          30.0
                -1.3425
 0.0456 1
                                                -2.3234
                                0.0956
                                          30.0
                -2.0314
 0.0556
          63.0
                                0.1055
                                          27.0
                                                -2.9287
 0.0655
          50.0
                 -2.3125
                                                -3.0057
 0.0755
          42.7
                 -2.4859
                                0.1155
                                          25.0
                                         T=(TIME=RREF==2)/ALPHA
DATA FROM RUN # 245
                             LN(P)=4 +8#T +C#T##2 +D#T##3 +E#T##4
                                           +F#T##5 +G#T##6 +H#T##7
                   FX(b)
   TIME
          . 5
                           A=-0.3374903900-02 E= 0.3547729580-02
         330.0
 0.0
                  0.0
                           3=-0.43678J148J 00 F=-0.2311477410-03
                 -0.2292
 0.0023
         557.7
                           C = 0.9440771639-91
                                                G= 0.1130323270-04
 0.0053
         5)), 1
                 -0.5063
                           D=-0.241525675D-01
                                                H=-0.1816429?30-06
 0.0113
         330.0
                 - 7.7313
                 -1.7966
 9.9153
         250.0
                                           P
                                                  LV(P)
 0.0211
         220.0
                 -1.3273
                                   TIME
                                          30.0
 0.0263
         177.3
                 -1.5453
                                 0.0463
                                                -2.3394
                                 0.0553
                                          53.0
                                                -2.6610
         140.0
                 -1.7799
 0.0315
                                                -3.0325
                                 0.0653
                                          49.0
         115.7
                 -1.9765
 3.0353
                                 0.0753
                                                -3.5026
                 -2.1163
                                          25.0
 0.9465
         100.0
                                         T={TIME#RREF##2}/ALPHA
ብላፕለ ዘንንብ ዓመ
                 247
                             L.(2)=1 +3#T +C#T##? +0#T##3 +E#T##4
                                           +F#T##5 +G#T##6 +H#T##7
   TIME
           7
                   F1(3)
                            947.2
                  0.0
 3.3
                           6=-0.3493451540 00 F=-0.1213505900-04
                 -3.3239
 0.7342
         635.D
                                                3= 0.2217333720-05
                           C= 0.4153141050-01
 2.0147
         415.7
                 -1.3250
                           n=-0.4939994017-02
                                                - H=-0.140161053D-03
                 -1.4372
 0.0292
          225.3
                 -2.1250
 0.040?
         113.7
                                   Tive
                                           Э
                                                  F.3(3)
          23.0
                 -1.4745
 1.3592
                                 0.1092
                                          23.0
                                                -3.5211
          55.1
                 -2.5737
 3.9472
                                                -3.3575
          5).7
                                 0.1292
                                          23.0
 0.0792
                 -2.0413
           42.3
                 -1.1155
                                 0.1372
                                          17.0
                                                -4.0231
 0.0492
```

0.0702

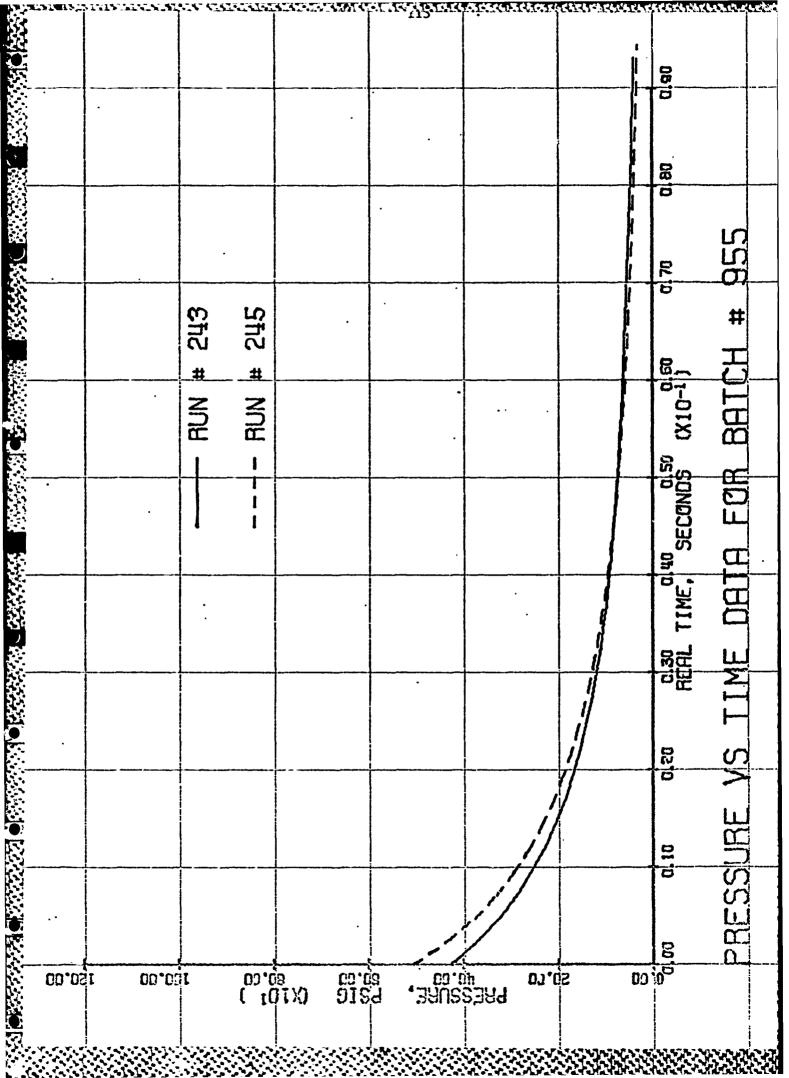
35.0

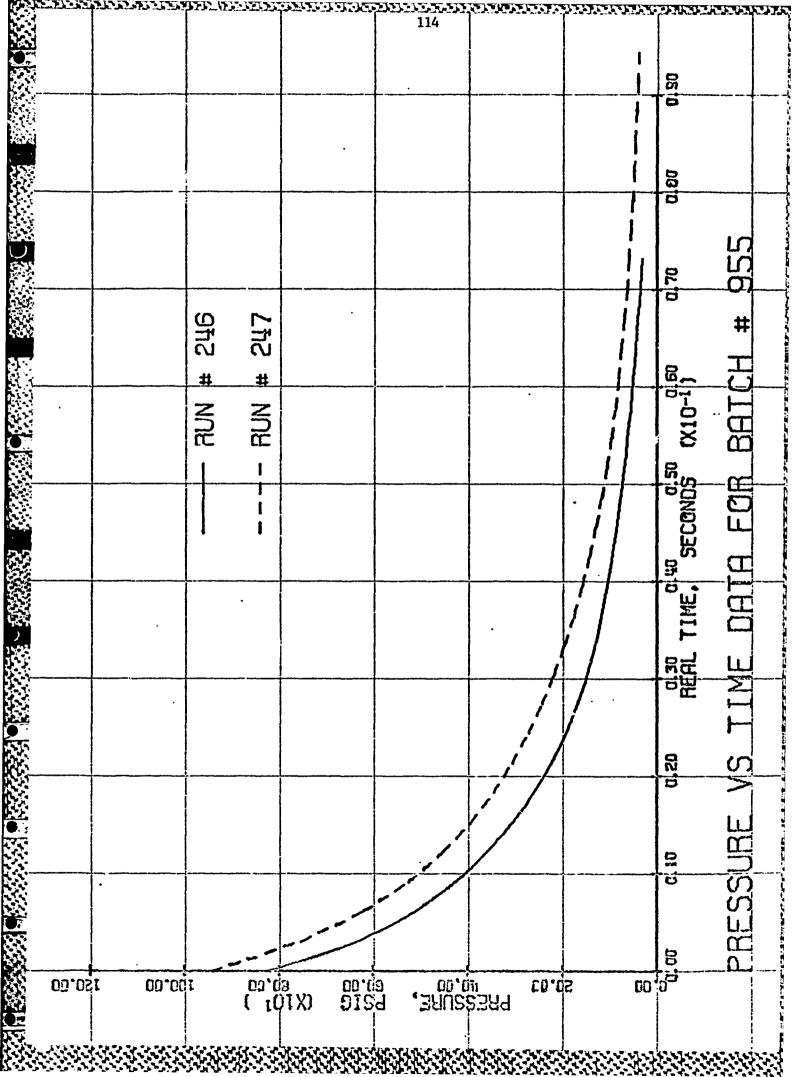
-3.2: 0

15.0

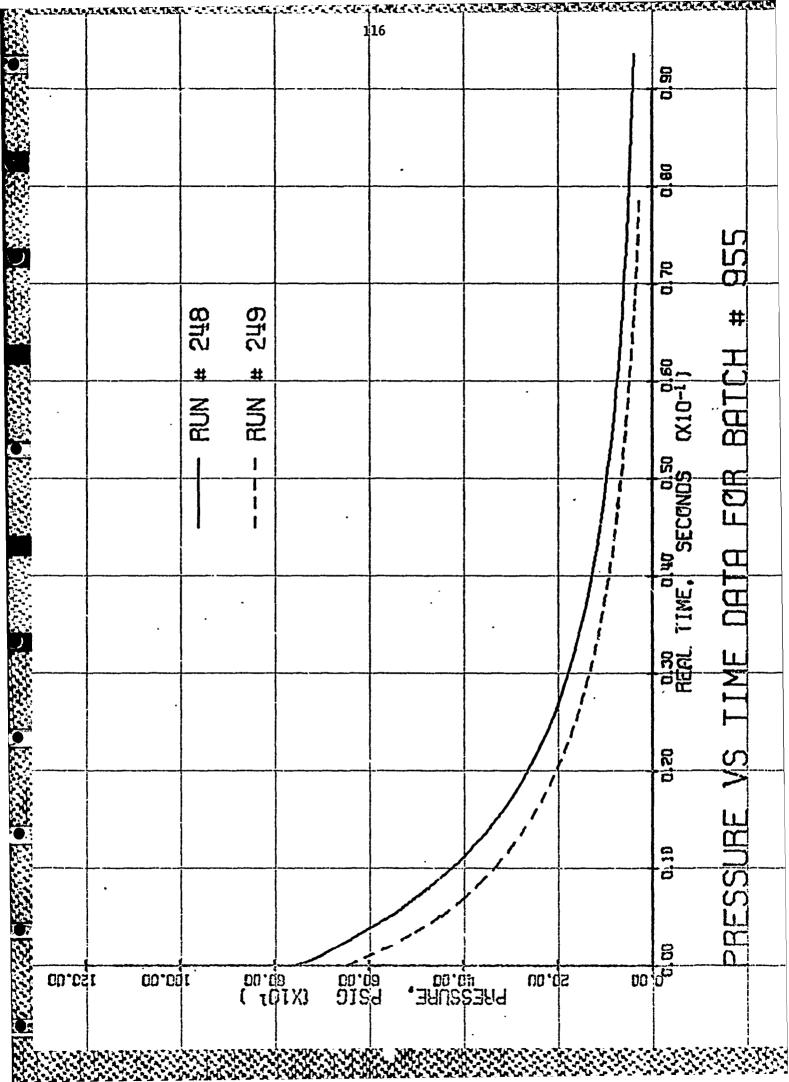
7.1442

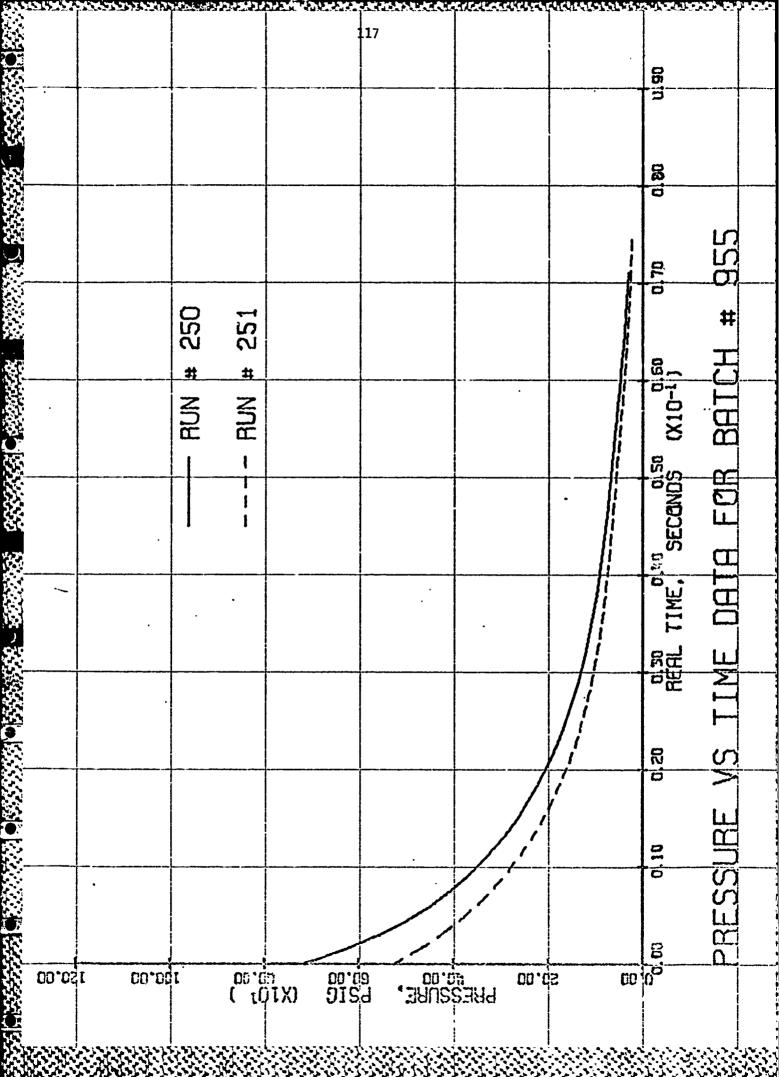
-4.145?



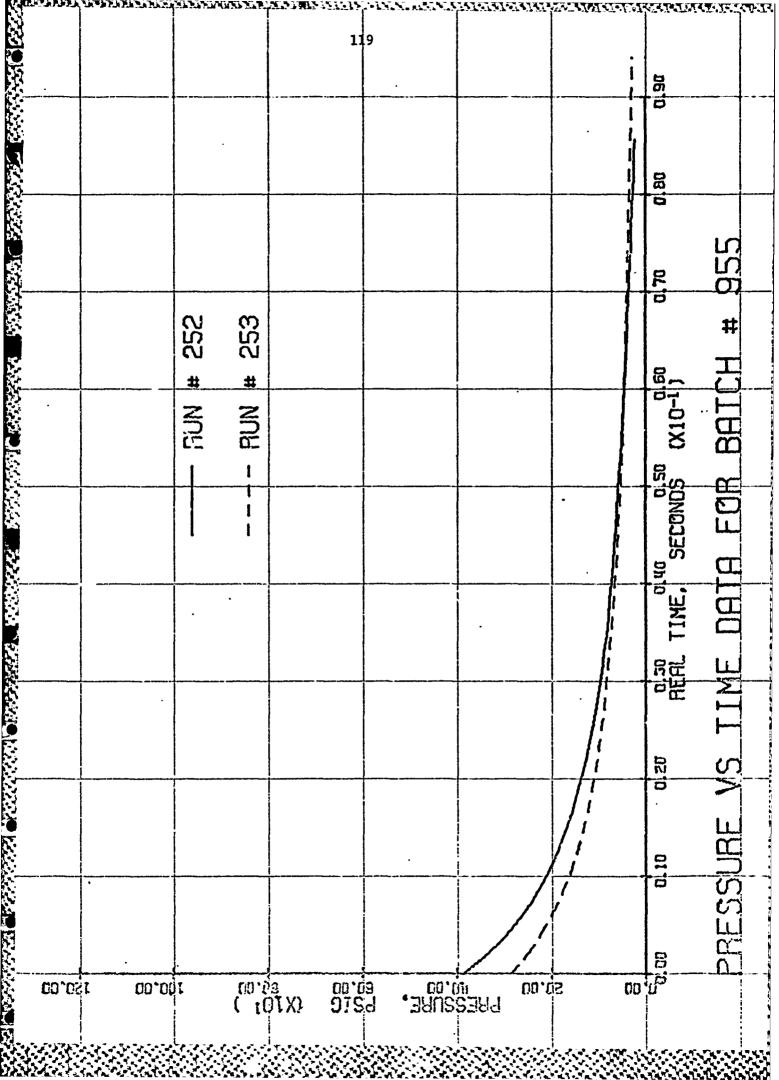


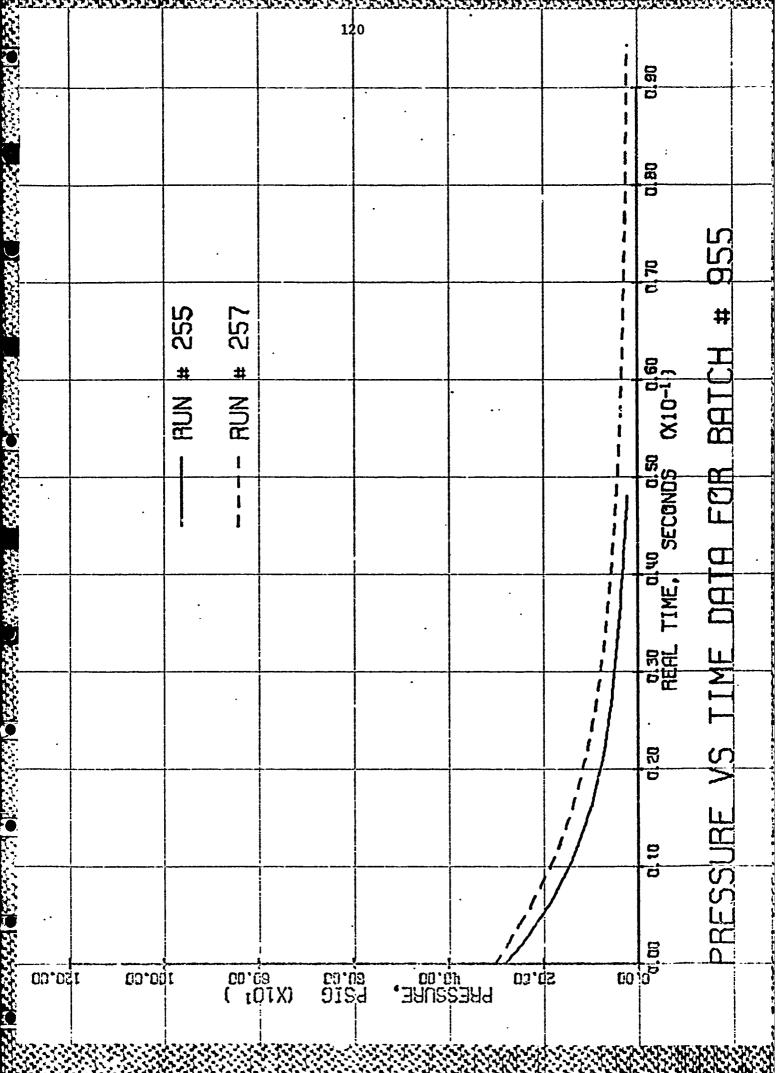
```
BATCH + 955 /
                    75.08 AP, 25.03 PRAA,
                                              190 MICRON UNIMODAL
DATA FROM AUG # 248
                                          1=[TIME*PREF**2]/ALPHA
                              LN(P)=4 +8+T +C+T++2 +0+T++3 +F+T++4
   TIME
            .
                    LV(P)
                                            +F*T**5 +G*T**6 +H*T**7
 0.0
          745.0
                   7.3
                            A=-0.1924095459-02
                                                F=-0.1833456430-03
 0.0057
          525.0
                  -0.3500
                            B=-0.2609687190 00
                                                 F= 0.9182653840-05
 9.0159
          315.0
                 -0.3608
                            C = 0.2513630260 - 02
                                                 G=-0.2171563300-06
 0.0209
          253.0
                 -1.0919
                            n= 0.1583138449-02
                                                 H= 0.1970567510-08
 0.0309
          170.0
                 -1.4776
 0.0409
          1?2.7
                 -1.3094
                                                    Lill 9)
                                    TIME
                                            Ð
 0.0509
           93.0
                 -2.3805
                                 0.1009
                                           35.0
                                                 -3.0580
 0.0609
           72.3
                 -2.3367
                                 0.1129
                                           31.0
                                                 -3.1794
 0.0309
           47.3
                 -2.7532
                                 0.1209
                                           23.0
                                                 -3.2312
 0.0909
           47.7
                 -2.9245
                                 0.1309
                                           25.0
                                                 -3.3945
DATA FROM RUN # 249
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +8+T +C+T++2 +D+T++3 +E+T++4
   TIME
                   LM(P)
                                            +F#T##5 +G#T##6
 0.0
          544.7
                  0.0
                            0.0024
          531.0
                 -0.2010
                            B=-0.3592252850:00
                                                 F=-0.2625451600-04
          390.0
 0.0074
                 -0.5077
                            C = 0.4117715520-01
                                                 G= 0.4795392150-05
 0.0124
          293.3
                 -0.5040
                            0 = -0.5030795400 - 02
 0.0174
          230.0
                 -1.0358
 0.0224
          133.3
                 -1.28C9
                                   TIME
                                            P
                                                   LN(P)
 0.0324
          120.0
                 -1.5864
                                 0.0624
                                           45.0
                                                 -2.5472
           35.9
 0.0424
                 -2.0312
                                 0.0724
                                           32.0
                                                 -3.0082
 0.0524
           57.0
                 -2.3795
                                 0.0324
                                           25.0
                                                 -3.2550
DATA FROM PUT # 250
                                         T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +B#T +C#T##2 +0#T##3 +E#T##4
   TIME
           ٠,>
                   LV(P)
                                            +F+T++5 +G+T++6 +H+T++7
 0.0
         715.0
                  0.0
                            \Delta = -0.7531552750-03
                                                 F= 0.884911181U-03
         512.0
 0.0040
                 -0.3340
                            8=-0.4062708820 00
                                                F=-0.3332053940-04
 0.0090
         373.0
                 -0.6588
                            C = 0.5618508327 - 01
                                                 G=-0.151856664D-05
 0.0142
         275.0
                 -0.9555
                            D=-0.9379085570-02
                                                 H= 0.256478370D-07
 0.0197
         215.9
                 -1.2016
 0.0240
         147.0
                 -1.4543
                                   TIME
                                           р
                                                   LR(P)
 0.0290
         135.0
                 -1.5:70
                                 0.0490
                                          48.0
                                                 -2.3528
 0.3310
         110.7
                 -1.3713
                                 0.0540
                                          53.0
                                                 -2.5118
 0.0399
          63.9
                 -2.3397
                                 0.0643
                                          40.0
                                                 -2.3334
 0.0443
          7:.0
                 --2.2155
                                 0.0740
                                          27.0
                                                 -3.2764
DATA F (0) FUN - 251
                                         T=[TI4E#KREH##2]/ALPH4
                              L'1(P)=4 +8#T +C#T##2 +8#1##3 +8#T##4
   TIME
           .)
                                           +F#T##5 +3#T##5
                   LN(F)
 0.0
         527.1
                  0.0
                           A= 0.5337703475-02
                                                F= 0.9344450230-03
 0.0531
         425.0
                 -0.2017
                           F=- ). 324167179 + 00
                                                 F=-0.5929270409-04
 0.0081
         235.3
                 -1.5335
                           C= 0.3090693730-01
                                                 G= 0.1336340590-05
 0.3131
         2:0.0
                 - 43150
                           9=-0.5635106720-02
 0.0131
         173.0
                 -1.6363
 0.0221
         14).
                 -1.5122
                                   TIE
                                           ?
                                                   L::(2)
 9.3231
         110.0
                 -1.5533
                               0.0531
                                          42.0
                                                 -2.5152
 0.0321
          74.7
                 -1. -371
                                 0.0471
                                          23.5
                                                 -2.9211
 0.0431
          23.3
                 -2.1.31
                                 3.07:3
                                          25.0
                                                 -2.3353
```



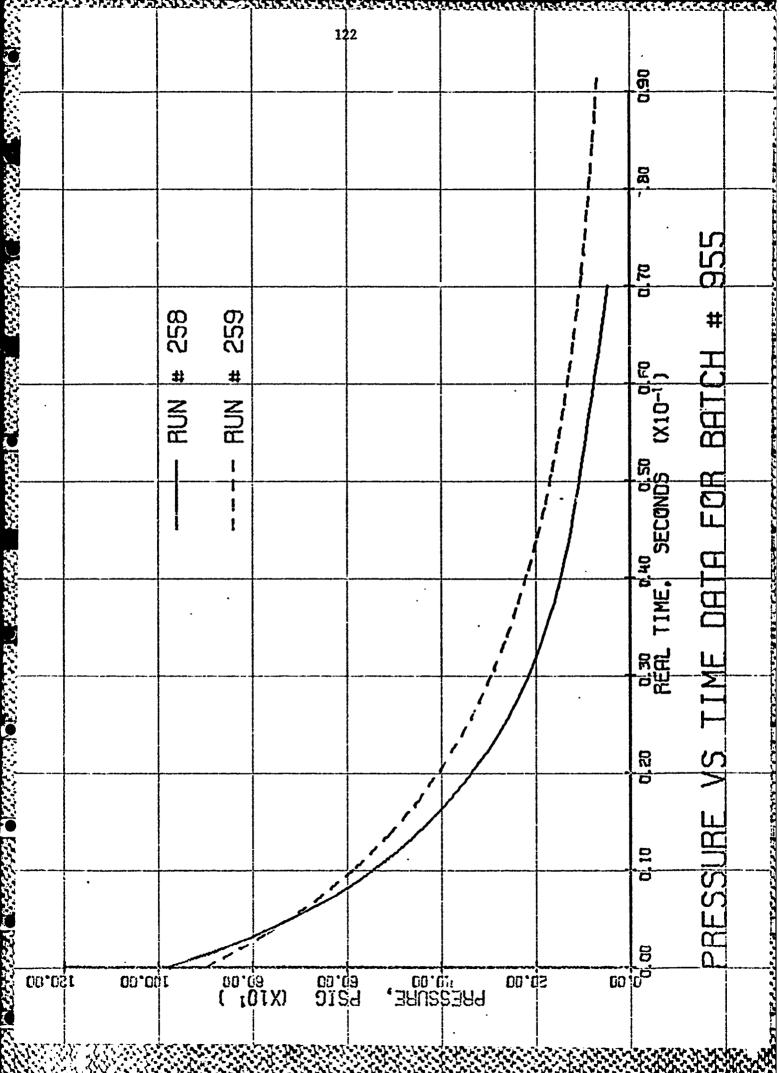


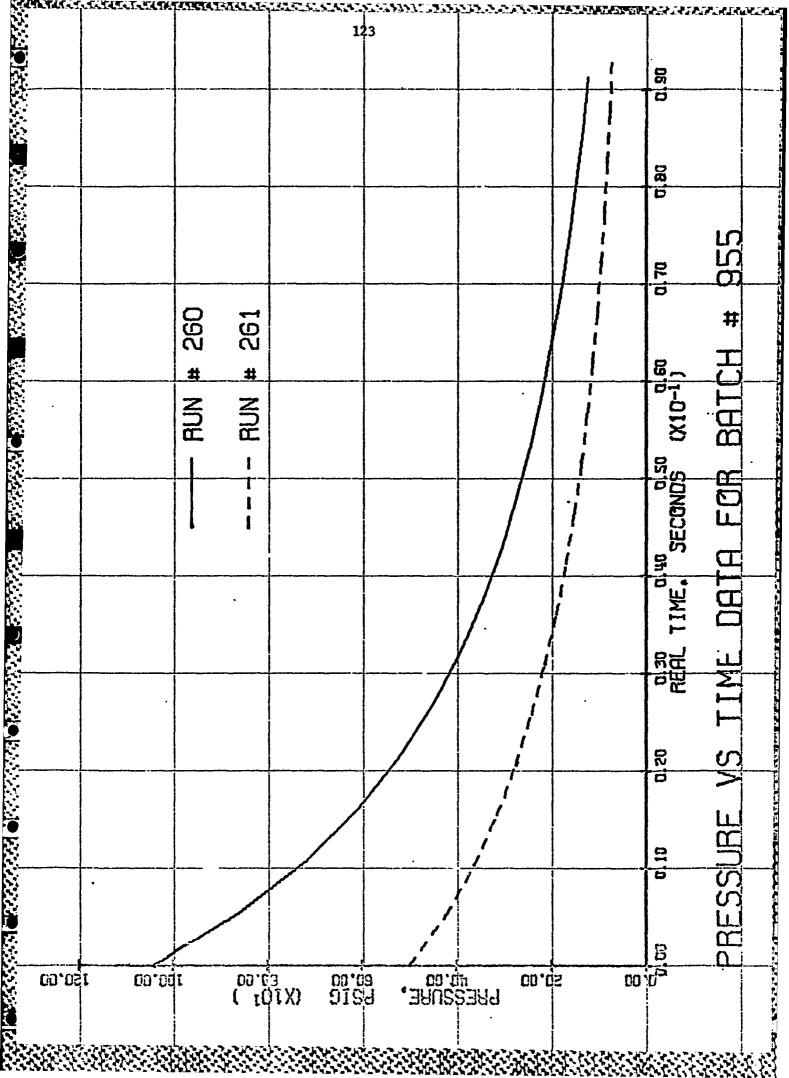
```
180 MICRON UNIMODAL
  BATCH # 955 /
                 75.0% AP, 25.0% PRAA,
                                          T=(TIME*RREF**2)/ALPHA
DATA FROM RUN # 252
                               LN(P)=A +3#1 +C#T##2 +D#T##3 +E#T##4
                                             +6*1**5 +3*1**6 +4*1*47
   TIME
            Ð
                   LV(P)
                                                  == 0.893376219D-03
                            A= 0.1940934470-02
          335.0
                  0.7
 0.0
                                                  F=-0.6003341749-04
                            8=-0.3372520620 00
                 -0.2934
 0.0042
          290.3
                                                  G = 0.203601159D - 05
                 -0.5594
                            C = 0.4405756037-01
 0.0092
          220.0
                                                  H=-9.2725575709-07
                            0=-0.7505016710-02
 0.0142
                 -3.3174
          170.0
                 -1.3116
-0.0192
          140.0
                                                    LM(P)
                                    TIME
                 -1.3683
 0.0292
           93.0
                                            46.C
                                                  -2.1246
                                  0.0592
           55.0
                 -1.510s
 0.0342
                                            35.C
                                                  -2.3979
                                  0.0692
 0.0392
           77.0
                 -1.6766
                                                  -2.6574
                                            27.0
           54.0
                 -1.7944
                                  0.0792
 0.2442
                 -1.3923
                                  0.0892
                                            20.0
                                                  -2.9575
 0.0492
           53.7
                                           T=(TIME#RREF##2)/ALPHA
DATA FROM BUN = 253
                               LN(P)=A +8+T +C+T++2 +0+T++3 +F+T++4
                                             +F#T##5 +S#T##6 +H#T##7
            Э
                    LN(P)
   T175
                                                  F=-0.434223605D-03
                             A=-0.5730335330-02
          235.0
                   0.0
 0.0 .
                                                  F= 0.3438415870-04
                 -0.1677
                            8=-0.2338792719 00
          241.9
 0.0024
                                                  3=-0.1222436199-05
                  -0.4321
                             C= 0.1429577327-01
 0.0074
          135.0
                                                  H= 0.1534148435-07
                             0 = 0.1811547260 - 02
                  -0.6758
          145.0
 0.0124
 0.0174
          120.0
                  -0.3550
                                                     LV(P)
          100.0
                  -1.)473
                                    TI'E
 0.0224
                                                  -2.0149
                                            33.0
           77.0
                  -1.3087
                                  0.0724
 0.0324
                                                  -2.1560
                                            33.0
                                  0.9824
 0.0424
           42.)
                  -1.5254
                                                   -2.3203
                                  0.0924
                                            28.0
 0.7524
           57.0
                  -1.7405
                                                  -2.4744
                                  0.1024
                                            24.0
           43.0
                  -1.5913
 0.0624
                                           T=(TI 4E*RREF**2)/ALPHA
DATA FROM PUN = 253
                               LN(P)=2 +34T +C4T442 +041443 +F4T444
           . э
                                             4F#T##5 4G#T##6
                    LN(P)
    TIME
                                                  E= 0.1904619140-0?
                             A= 0.1775231030-02
          233.7
                   2.0
 0.0
                                                   F = -0.1871370939 - 03
                  -0.1542
                             P=-0.2997477120 00
 0.0024
          240.0
                                                   G= 0.613550715D-C5
          200.0
                  -0.3355
                             C= 0.123 3161870±01
 0.0050
                             D=-0.7112939390-02
 0.0100
          145.0
                  -0.6531
                  -0.9303
 0.0150
          105.0
                                             P
                                                     FM(5)
                                     TIBE
 3.1203
           77.7
                  -1.2731
                                                   -2.1591
                  -1.5377
                                  0.0400
                                            32.0
 0.3253
           52.0
                                  0.0450
                                            25.0
                                                   -2.4159
           43.0
                  -1.7636
 0.0300
                  -1.9459
                                  0.0500
                                            20.0
                                                   -2.5391
 0.0350
           47.)
                                           T=(TIME#RPEF##2)/ALPHA
0414 FROM PUT - 257
                               [ Q(P)=A +5*T +C*T**2 +0*T**3 +6*T**4
                                             +F*T**5 +G*T**5 +H*T**7
    TIVE
            )
                    [11(0)
                                                  f=-0.6095716340-03
          302.0
                             1=-0.4330525000-02
 0.0
                   0.0
                                                  F= 0.3433052150-04
                             a=-0.1913863310 00
                  -5.1497
          257.7
 0.0030
                                                   3=-0.9864160830-05
                             G=-0.2019933870-01
          210.0
                  -1.4121
  0.0053
                                                   H= 0.1132501020-07
                             0= 0.5531161540-02
  0.0131
          150.0
                  -0.5353
  0.0132
                  -3.1721
          125.3
                                              ?
                                     TIIF
                                                     1.(7)
          1 ).
                  -1.1055
  0.1233
                                            29.0
                                                   -2.3431
                                   9,9633
           £3.
  0.0283
                                   9.0733
                                            25.0
                                                   -2.4015
           6).5
  3. 3363
                  -1.3151
                                            22.0
                                                   -2.5194
           45.0
                  -1.9,33
                                   0.0023
  0.0453
                                                   -2.7147
                  -2.1551
                                   6.0003
                                            20.0
  0.0533
            35, 1
```





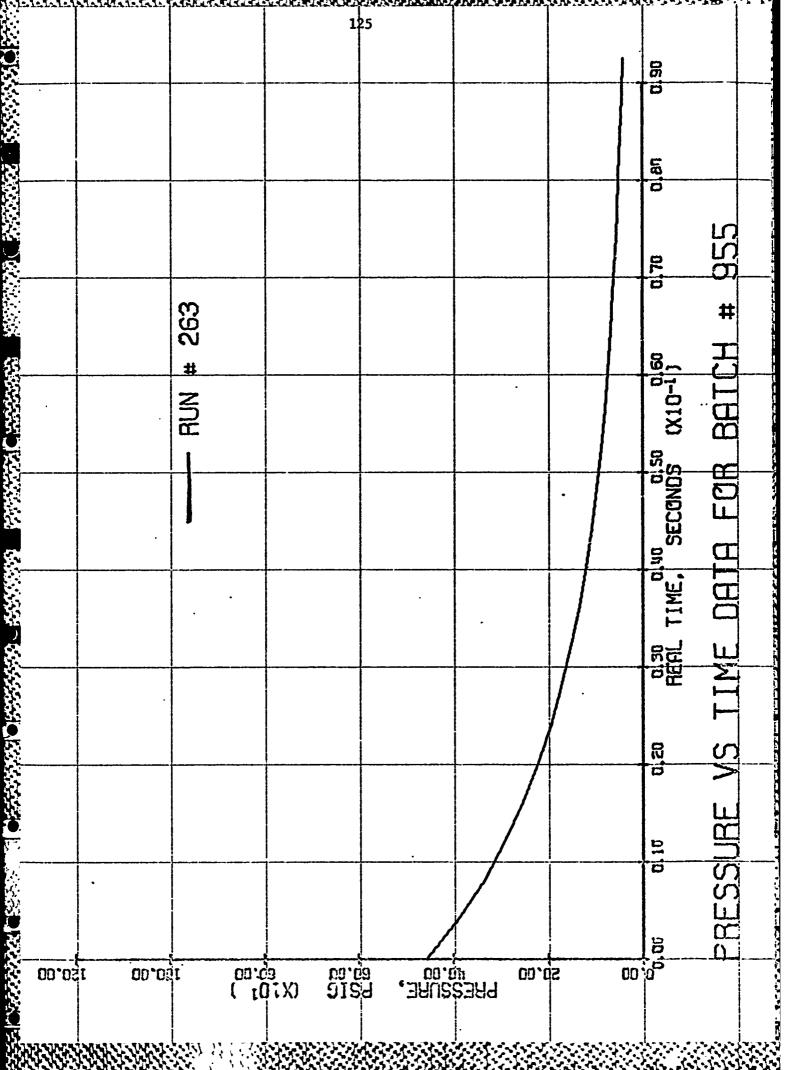
```
RATCH : 955 / 75.03 MP. 25.03 PBAA. 190 MICRON UNINGOAL
                                       T=(TIME*RREF**2)/ALPHA
DATA FROM RUN 1 258
                            LN(P) = 4 +3*T +C*T**2 +D*T**3 +5*F**4
   TIVE
          2
                 F4(b)
                                         +F#T##5 +G#T##6 +H#T##7
                         0.0
 0.0
         975 ac
                         8=-0.3001311940 00 F= 0.5673037170-04
                -0.1482
 0.0024
        843.7
                         C = 0.2211934620-01 G = -0.4392016420-05
 0.0067
        642.8
                -0.4166
                          D=-0.1400395770-02 H= 0.957263265D-07
                -0.7156
        475.7
 0.012+
               -0.9656
 0.0131
         371.2
                                               LN(P)
                                 TIME
                                        Р
        274,4
               -1.2677
 0.0236
                                       93.2 -2.2952
                               0.0530
 0.0292
        223.9
               -1.4713
                               0.0592
                                             -2.5444
 0.2349
        173.3
               -1.7272
                                       76.6
                               0.0661
                                       56.3
                                              -2.3512
        144.4
                -1.4095
 0.0405
                                             -3.2189
                               0.0730
                                        39.0
        115.0 -2.1327
 0.0467
                                       T=(TIME*RFFF**2)/ALPHA
DATA FROM RUN # 259
                           LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
                                         +F*T**5 +G*T**6 +H*T**7
   TIVE
           2
                 LN(P)
                         Δ= 0.1956488955-02 E=-0.4791350C0D-05
 0.0
         895.0
                 0.0
                          B=-0.2045401780 00 F= 0.8397271720-06
        475.0
                -0.2321
 0.0065
                          C = 0.7580254699-02 - G = -0.2794343389-07
 0.0165
         450.0
               -0.5700
                          0 = -0.2511173409 - 03 H= 0.2932654610 - 09
        325.0 -1.0130
 0.0265
         240.0
                -1.3162
 0,0365
                                         p
               -1.3291
                                 TIVE
                                               LN(P)
 0..0545
        145.0
                               0.1265
                                       38.0 -3.1592
              -2.0783
        112.7
 0.0665
                                       25.0 -3.5779
                               0.1465
         75.0 -2.4793
 0.0855
                                       22.0 -3.7058
 0.9965
          63.0
                -2.6537
                               0.1565
                               0.1665
                                        20.0 -3.3011
          33.0
                -2.3265
 0.1035
                                       T=(T14F#0PF###2)/6LPH4
DATA FROM FUN 4 250
                            LN(P)=4 +3#7 +C#T##2 +0#T##3 +F#T##4
                                         +F#T##5 +G#T##6 +H#T##7
        . 5
                 LN(P)
   Time
                         0.0
 0.0
        1047.0
                          E=-0.1632052870 00 F= 0.1241610670-05
 0.0079
         735.0
                -0.2313
        575.
                -0.5926
                          C = 0.4697328137-02 G=-0.1993793640-08
 0.0173
                          D=-0.311695011 J-04 H= 0.1090053230-10
 0.0379
        340.0
                -1.1130
        200.0
 0.0529
                -1.5437
                                        D
                                                L4(P)
 0.0329
         140.0
                -2.0053
                                 TIME
        100.0
                -2.3413
                               0.1329
                                        35.0 -3.3916
 0.1029
                                       25.0
                                             -3.7231
                               0.2223
          73.0
                -2.5505
 0.1229
                               0.2429
                                       22.0
                                              -3.3559
                -2.9390
 0.1429
          50. ;
                                        20.0
                               0.2529
                                              -3.9517
 0.1020
          43.0
                -3.1353
                                       T=(TI)Emak Eff##2)/aLPHA
04T1 = 11: - J.
                251
                            L ((0)=> +3%F +(%T%*2 +3%T**3 +F*T**4
                                         +F#T##5 +G#T##5 +4#T##7
           د
                 F1(9)
   11"=
                          #= 0.4391030520-02 F= 0.3546829840-84
 0.0
         475.0
                 0.0
                         R=-0.1400360220 00 F=-0.1069092470-05
                -4.375-
         2.7.)
 0.0123
                          C = 0.573533231 = 02 = 3 = 0.1525733 = 49 = 67
         253.0
 0.02??
                -0.073
                         n=-7.5-17772120-03 H=-0.3275106180-10
         202.0
                -0.3463
 9.0324
                -1.5577
 9.952%
         133.3
                                 7177
          43.0
                                               L 1(7)
 3.912 -
                -1.5507
                -1.9141
                               9.1723
                                        33.0
                                             -2.5470
          73.3
 0.0970
                               0.1935
                                        23.0
                                              -2.3724
 0.1123
          17.7
                -2.1102
          27.7
                -2.2225
                               3.2223
                                        25.9
                                              -2.3657
 0.1325
                                        23.9
                               0.3525
                                             -3.2785
          43, 1
                -2.4434
  7.1673
```





BATCH # 955 / 75.0% AP. 25.0% PBAA. 180 MICRON UNIMODAL

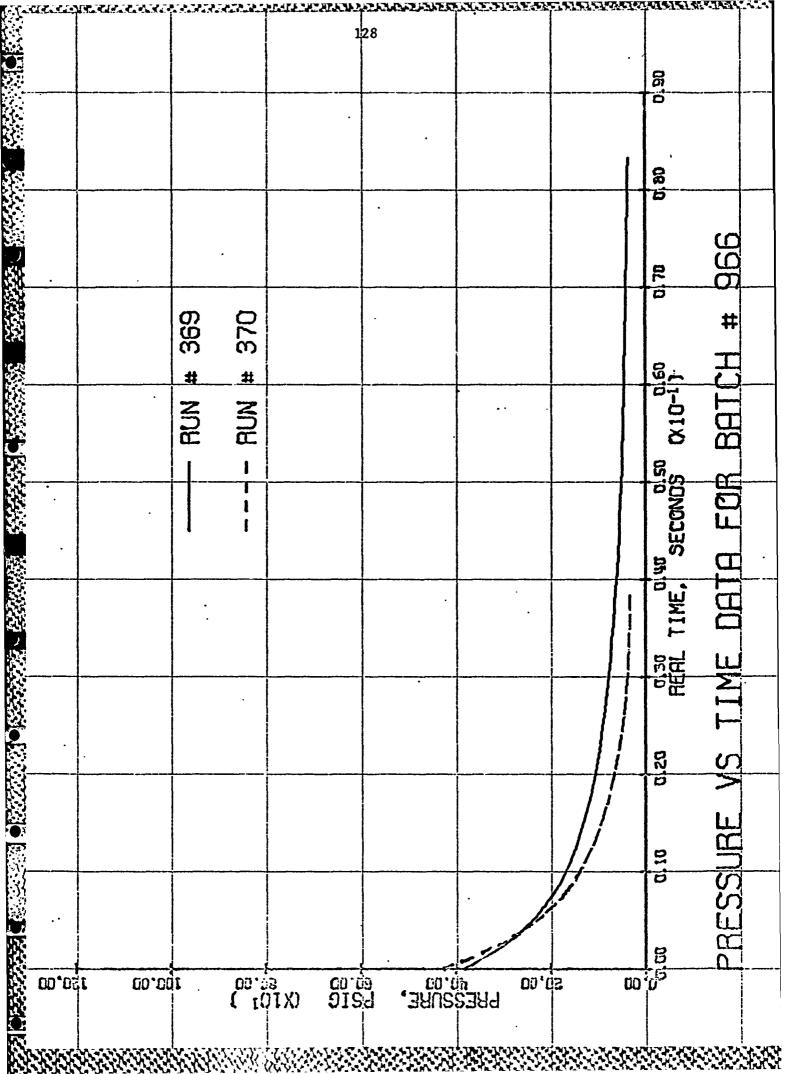
DATA FRO	4 RJN =	253		T=(TIY	E#RREF##2)/	AL PHA
			. LN(P)=4 +6*	T +C+T	**2 +D*T**3	+F*T**4
TIME	ς,	L'i(P)		+F=T	**5 +G*T**6	+H*T**7
0.0	455.0	ე. ე	A= 0.38730047	20-66	E= 0.39204	30100-04
0.0071	350.0	-0.2624	8=-0.17990254	90 00	F=-0.39774	
0.0171	242.)	-0.5314	C= 0.72501771	60-02	G= 0.30466	
0.9371	123.0	-1.2533	D=-0.94782382	30-03	H=-0.60143	
0.0471	93.0	-1.5353	•			
0.0571	73.0	-1.7503	TIME	P	LN(P)	
0.3771	52.0	-2.1091	0.1571	9.0	-3.9231	
0.0971	35% 0	-2.5549	0.1671	3.0	-4.0409	
0.1171	25.0	-2.9014	0.1771	7.0	-4.1744	
0.1371	13.3	-3.5553	0.1971	5.0	-4.5109	



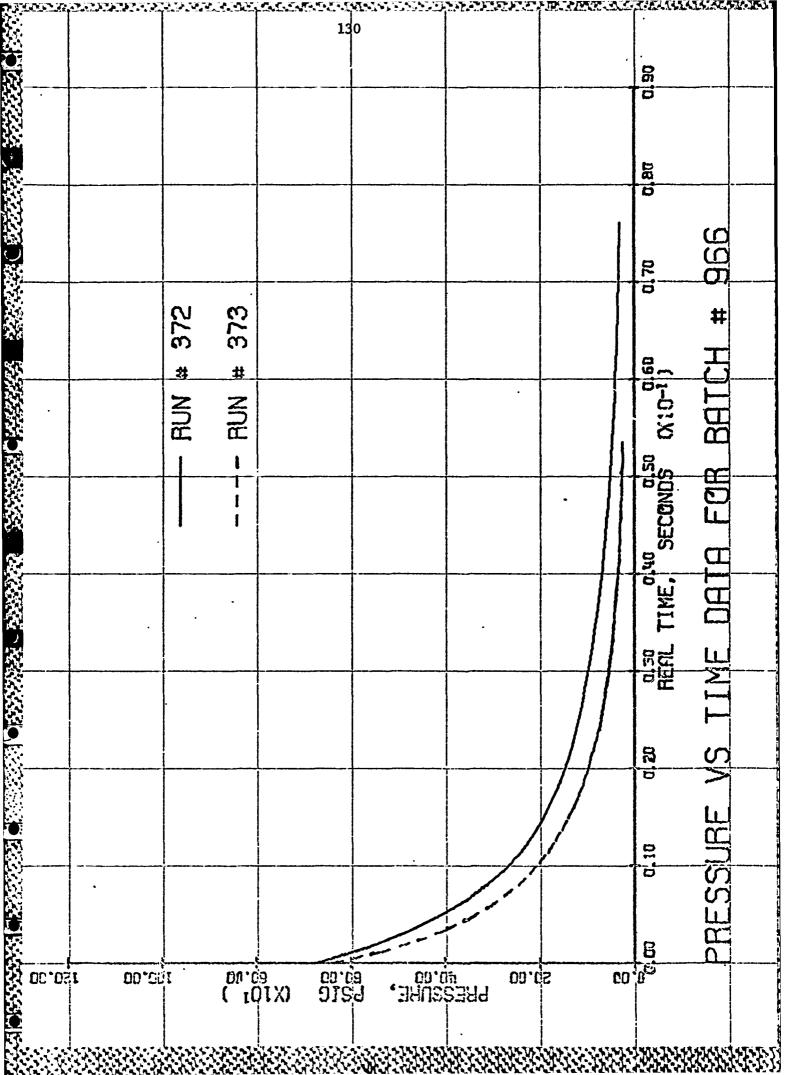
## PATCH # 906 / 80.03 AP. 20.0% PACT

```
DATA FROT RUN # 367
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=4 +8*1 +C*T**2 +D*T**3 +E*T**4
   TIME
            2
                   LM(P)
                                            *F*T**5 +G*T**6 +H*T**7
         540.0
 0.0
                  0.)
                            4= 0.4062534610-02
                                                 E = 0.135601829D - 01
 0.0008
                            8=-0.5741935270 00
         430.0
                 -0.1173
                                                 F=-0.177737407D-02
 0.0025
         399.0
                 -0.3254
                            C = 0.1125490110 00
                                                 G= 0.110309584D-03
 0.0035
          330.0
                 -0.4925
                            0=-0.5047487910-01
                                                 4=-0.2504505980-05
 0.0053
                 -0.7483
         255.5
         210.0
 3.0074
                                            D
                 -0.9445
                                   TIME
                                                   LN(P)
 0.0103
          145.0
                 -1.3148
                                 0.0308
                                           45.0
                                                 -2.4349
 0.0153
          95.0
                 -1.7377
                                 0.0358
                                           30.0
                                                 -2.3904
 0.0203
           71.0
                 -2.0431
                                 0.0408
                                           27.0
                                                 -2.9957
 0.0253
           50.0
                 -2.3795
                                 0.0458
                                           25. tr
                                                 -3.0?27
DATA FROM RUN # 368
                                          T=(TIME*RFEF++2)/ALPHA
                              LN(P)=A +8+T +C+T++2 +0+T++3 +5*T++4
            Э
   TIME
                   FA(5)
                                            +F#T##5 +G#T##6 +H#T##7
 0.0
         530.7
                            Δ=-0.4955328757-02
                  0.0
                                                 E= 0.576827001D-03
 0.0035
                 -0.3312
                            3=-0.4222039190 00
                                                 F=-0.3511441800-04
         352.0
 0.0035
         245.0
                 -0.7716
                            C = 0.4869903590-01
                                                 S= 0.113298079D-C5
 0.0135
         175.0
                 -1.1081
                            2=-0.5922410429-02
                                                 H=-0.146900333D-07
 0.0135
         135.3
                 -1.3675
 0.9235
         103.0
                 -1.5381
                                   TIME
                                            ρ
                                                   LN(P)
 0.0285
          90.0
                 -1.7731
                                 0.0535
                                           48.0
                                                 -2.4017
 0.0335
           75.0
                 -1.9554
                                 0.0635
                                           40.0
                                                 -2.5840
 0.0335
          53.7
                 -2.0534
                                 0.0735
                                           35.0
                                                 -2.7175
 0.0435
           57.0
                 -2.2298
                                 0.0835
                                           30. ∪
                                                 -2.8717
DATA FROM RUN # 369
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +5*1 +C*T**2 +0*T**3 +E*T**4
   TIME
            Ģ
                   LN(P)
                                            +F=T==5 +G=T==6 +H=T==7
 0.0
         337.0
                  0.0
                            A=-0.7323095150-03
                                                 £= 0.9330760010-04
 2.3317
         317.0
                 -0.1:13
                            P=-0.4035936820 00
                                                F= 0.5641285887-05
 0.3057
         207.0
                 -3.5075
                            C = 0.4342441100-01
                                                 5=-0.4008744350-05
 0.0117
         152.3
                 -0.9153
                            1=-0.3696421900-02
                                                 H= 0.6340291039-03
 0.0157
         119.0
                 -1.1610
 2.0217
          91.7
                 -1.3552
                                   11: -
                                            b
                                                   F.1(5)
                                 0.0567
           35.0
                 -1.4975
 0.0267
                                           46.0
                                                 -2.1115
 0.0317
          72.3
                 -1.5635
                                 0.0667
                                           41.7
                                                 -2.2?56
          65.7
 0.0357
                 -1.7:59
                                 0.0767
                                           37.4
                                                 -2.3293
 3.0457
          52.0
                 -1.0239
                                 0.3867
                                           35. 3
                                                 -2.3348
STA FROM TURE
                                          T=(T1VF*/2EF**2)/3EPHA
                              LN(P)=A +3#T +C=T##2 +5#T##3 +E#T##4
                   F1(c)
                                            +F#T##5 +G#T##6
   TINT
         427.0
 3.3
                  0.3
                            A=-0.5393907140-02
                                                 E=-0.4623535530-02
                 -4.2359
 3.9019
         327.0
                            7=-0.4791725945 00
                                                F= 0.4373349690-0?
                 -0.5100
 0.0349
         200.3
                            C=-).3:7:935193-32
                                                 3=-0.1445352430-04
 0.0000
                 -9.5883
         147.0
                            P= 0.1975453590-01
 3.3747
         137.3
                 -1.1361
 0.0129
         107.0
                 -1.3543
                                   T1 :
                                            P
                                                   FA(5)
 0.0140
          32.3
                 -1.5250
                                 0.0293
                                           37.0
                                                 -2.4409
 0.0199
          < F . 3
                 -1.2524
                                 0.0349
                                           33.0
                                                 -2.5.03
                 -2.2064
 0.0243
          47.0
                                 0.0399
                                           30.0
                                                 -2.6555
```

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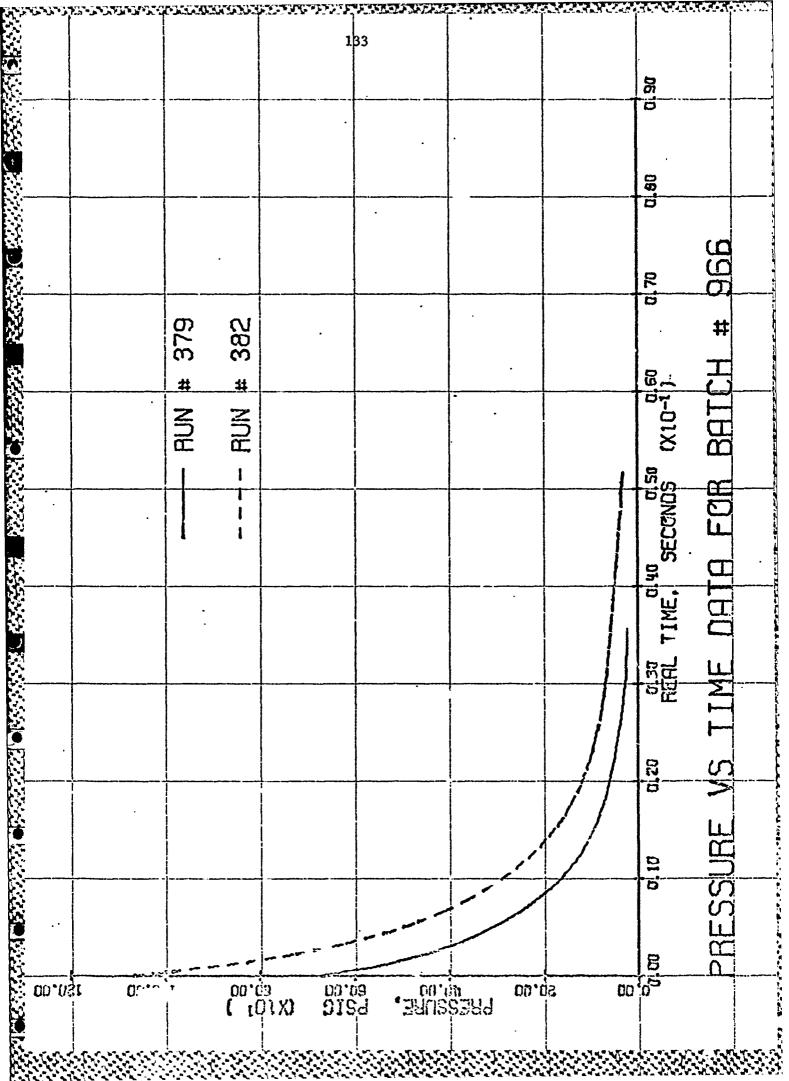
```
DATA FROM RUN = 372
                                        T=(TIME*RREF**2)/ALPHA
                           LN(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TIRE
           Ç
                  LV(P)
                                          +F*T**5 +G*T**6 +H*T**7
 3.3
         679.3
                 0.0
                           4=-0.1305354990-02
                                              E=-0.5513185717-03
 0.0016
         565.0
                -0.1705
                           8=-0.4010691890 00 F= 0.3829290070-04
 0.0043
         427.0
                -0.4505
                          C = 0.1630812060 - 01
                                              G=-0.1165217570-05
 0.0093
         233.3
                -0.3725
                          D= 0.2321388220-02
                                              H= 0.1320275910-07
 0.0143
         200.0
                -1.2090
 0.0193
         150.0
                -1.4936
                                 TIME
                                                LM(?)
 0.0243
         120.0
                -1.7198
                               0.0493
                                        50.0
                                              -2.5953
 0.0293
          97.)
                -1.)326
                               0.0593
                                        40.0
                                              -2.3134
 0.0343
          34.0
                -2.2765
                               0.0593
                                        33.0
                                              -3.0108
 0.0393
          70.0
                -2.2588
                               0.0793
                                        27.0
                                              -3.2114
DATA FROM PUR - 574
                                       T=(TIME*RRFF**2)/ALPHA
                            EN(P)=A +B#T +C#T##2 +0#T##3 +E#T##4
   T14=
                  LH(P)
                                         +F*T**5 +G*T**6 +H*T**7
 9.0
         540.0
                 0.0
                          0.0011
         532.3
                -0.1343
                          B=-0.5604262377 00 F=-0.140039815D-03
 0.0932
         407.0
                -0.4527
                          C= 0.9559940449-01
                                              G= 0.5057776450-05
 J.7261
         297.)
                -0.7677
                          D=-0.1742236549-01
                                              H = -0.7379732590 - 07
 0.0111
         137.0
                -1.2304
 0.0161
         127.0
                -1.5173
                                 TIME
                                         Þ
                                                LN(P)
 0.0211
         89.0
                -1.9723
                               0.0411
                                        33.0
                                              -2.9550
 0.9261
          63.0
                -2.2420
                               0.0461
                                              -3.1293
                                        28.0
 0.0311
          50.0
                -2.5494
                               0.0511
                                        25.0
                                              -3.2426
 0.0361
          40.0
                -2.7726
                               0.0551
                                        24.0
                                              -3.2934
DATA FROA WUM W 375
                                       T=(TIME#RREF##2)/ALPHA
                            LH(P)=A +B#T +C#T##2 +D#T##3 +F#T##4
   TIVE
          Ö
                  L4(2)
                                         +F=T==5 +G=T==0 +H=T==7
 0.0
         624.0
                 0.0
                          A=-0.4959140990-02 E= 0.419798652D-03
 0.9016
         507.)
                -0.2075
                          n=-0.4564535740 00 F=-0.1306465510-04
.0.0052
         347.0
               -0.5500
                          C= 0.5344833490-01 G= 0.4126914240-05
 0.0102
         237.1
                -0.9331
                          D=-0.5743365459-02
                                              H=-0.3851163840-08
 0.0152
         170.0
                -1.3004
 0.0202
         130.0
                -1.5695
                                 TIME
                                         P
                                                LN(P)
 0.0252
         105.0
                -1.7322
                               0.0602
                                        40.0
                                              -2.7473
 0.0002
          35.9
                -1.9935
                               0.0702
                                        35.0
                                              -2.8808
 9.0402
          50.0
                -2.3413
                               0.0302
                                        32.0
                                              -2.9704
 0.0502
                -2.5349
          43.0
                               0.0962
                                        30.0
                                              -3.0350
DMA FRAIL - Jr. 8 375
                                       T=(TIAE#RREF##2)/CLPHA
                            Lx(P)=4 +3#T +C#T##2 +3#T##3 +F#T##4
  TITE
                 14(2)
                                         +F*T**5 +G*T**o +H*T**7
         645.3
                0.0
                          0.0025
         457. 1
                -0.2310
                          8=-0.4322559470 00 F= 0.3164725030-04
0.0053
         33).0
               -3.6113
                          0.0103
        233.0
               -1.0122
                          D= 0.1030332770+02 H= 0.1371012270+67
0.0153
        157.)
               -1.3513
3.0275
               -1.5004
        12%)
                                 T1:=
                                         Ō
                                                (A(P)
0.0253
         105.0
               -1.3153
                              0.0553
                                       42.0
                                             -2.7316
0.030=
         37.)
               -2.0033
                               0.0659
                                        35.0
                                              -2.9139
0.0353
               -2.1925
         7?. ?
                               0.0751
                                        30.0
                                              -3.0/31
D. 145 (
               -2.4403
         24.0
                               0.0853
                                        27.0
                                              -3.1734
```

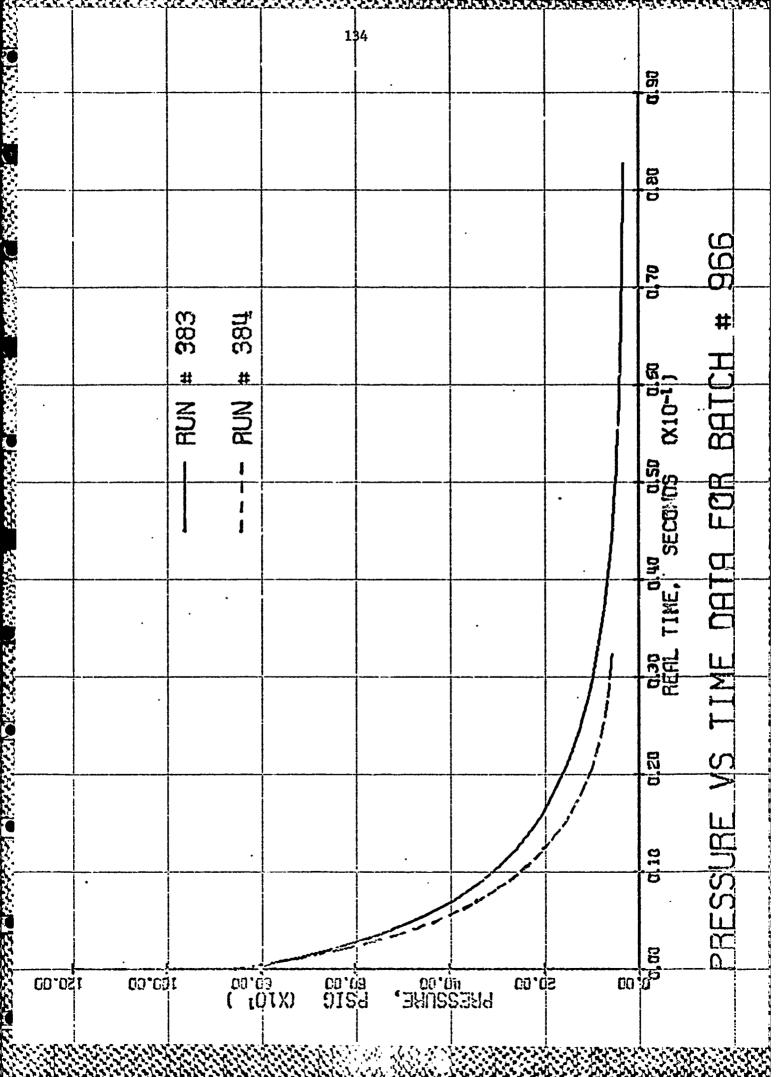


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## 6ATCH # 956 / 80.0% AP, 20.0% PBCT

```
DATA FRO 4 RUN # 379
                                          T=(TIME#RPEF##2)/ALPHA
                              LN(P)=4 +B*T +C*T**2 +D*T**3 +E*T**4
           9
   TIME
                  LN(P)
                                            +F#T##5 +G#T##6 +M#T##7
 0.0
         672.0
                  2.9
                            A=-0.2237026340-02
                                                 E= 0.4448349960-01
 0.0015
         500.0
                 -0.2957
                            8=-0.6131134401 00
                                                F=-0.6242172190-02
                                                G= 0.4358215670-03
 0.0030
         400.0
                 -0.5188
                            C= 0.3372863930 00
                            D=-0.1654161970 OG
 0.0052
         300.0
                 -0.3065
                                                 H=-0.1189797060-04
 0.0084
         200.0
                 -1.2119
 9.0104
         150.0
                 -1.4796
                                    TIME
                                            P
                                                   LN(P)
                                 0.0280
 0.0143
          100.0
                 -1.9951
                                           30.0
                                                 -3.1091
                 -2.1923
 0.0175
           75.0
                                 0.0306
                                           25.0
                                                 -3.2914
                 -2.5029
 0.0206
           55.0
                                 0.0356
                                           22.0
                                                 -3.4192
 0.0247
           40.0
                 -2.3214
                                 0.0405
                                           20.0
                                                 ~3. j145
DATA FROM RUM # 382
                                          T=(TIME*RREF##2)/ALPHA
                              LN(P)=4 +3#F +C#T##2 +D#T##3 +F#T##4
   TIME
            c
                   LN(P)
                                            +F#T##5 +J#T##6 +H#T##7
 0.0
        1067.0
                  0.0
                            A=-0.6219110030-03
                                                E= 0.8785093070-02
 0.0020
         743.0
                 -1.355?
                            P=-0.7375710300 00 F=-0.7650327160-03
 0.0040
         560.0
                            C= 0.137130587) 00 G= 0.3313606240-04
                 -0.5447
 0.005)
         443.0
                 -0.3378
                            0=-0.5314030030-01
                                                H=-0.5655040180-06
 0.0093
         313.7
                 -1.2106
 0.0140
         193.0
                 -1.7099
                                   TIME
                                            P
                                                    LN(P)
          123.3
                 -2.1205
 0.0190
                                 0.0390
                                           50.0
                                                 -3.0506
         .90.0
 0.0240
                 -2.4728
                                 0.0449
                                           42.0
                                                 -3.2349
 0.0290
           72.0
                 -2.5959
                                 0.9490
                                           34.0
                                                 -3.4452
 0.0340
           67.7
                 -2.3733
                                 0.0540
                                           23.0
                                                 -3.6404
DATA F= 04 RJY # 333
                                          T=(TI 4F47REF4*2)/ALPHA
                              LN(P)=A +3*T +C*T**2 +D*T**3 +5*T**4
   TIME
            ø
                   LY(P)
                                            +F+T-445 +G+T+45 +H+T+47
 0.7
          323.9
                  0.0
                            4=-0.1397010710-02
                                                E= 0.4643441140-03
 0.0025
                            9=-0.4693695050 00 F=-0.21267,3650-04
          507.0
                 -0.3903
         507.0
 0.304?
                 -9.4303
                            C = 0.5315372860-01
                                                G= 0.5377263150-06
                            D=-0.6023307750-02 H=-0.5843814220-08
 0.0062
         420.0
                 -0.5590
 0.0112
         230.0
                 -1.)745
                 -1.4110
 3.3152
         200.0
                                   T145
                                            Ş
                                                    LN(P)
                                 0.0542
                                           42.0
 0.0212
                 -1.7121
         1+3.3
                                                 -2.9716
          115.0
 0.0252
                 -1.3644
                                 J. 0352
                                           35.0
                                                 -3.1258
 0.0362
          73.5
                 -2.3918
                                 0.0752
                                           33.0
                                                 -3.2123
 0.0442
           53.0
                 -2.7390
                                 0.0302
                                                 -3.3731
                                           33.0
0ATA F-34 21 1 324
                                          T=(T1 'E#RPEF##2)/ALPHA
                              L'1(2)=1 + 19T + C*T**2 +0*T**3 +6*T**4
                                            +F + T * * 5 + G * T * * 6
   11.2
                   1. . (9)
         355.0
 2.3
                  0.0
                            7= 0.3792017700-03
                                                 E= 0.2121443800-02
 0.0018
                 -).7313
                            P=-0.6309022350 00 F=-0.6713335940-04
         545.3
                            C= 0.1101344200 00
 0.0037
                 -3.5465
                                                G=-0.1353577430-05
         493.7
                            D=-0.2150493155-01
 3.0054
                 -7.7473
          1 19 • 1
 0.0057
         2.20)
                 -1.1503
 0.0112
         215.3
                 -1.335)
                                                    L':(?)
         173.3
                                           100.0
 0.0137
                 -1.7563
                                 0.0237
                                                 -2.3741
         145.0
                 -1.774.
 0.0153
                                 0.0237
                                           3.5
                                                 -2.4030
                                                 -2.7633
 9. 1157
          115.0
                 -2.17-2
                                           55.0
                                 9.4337
```

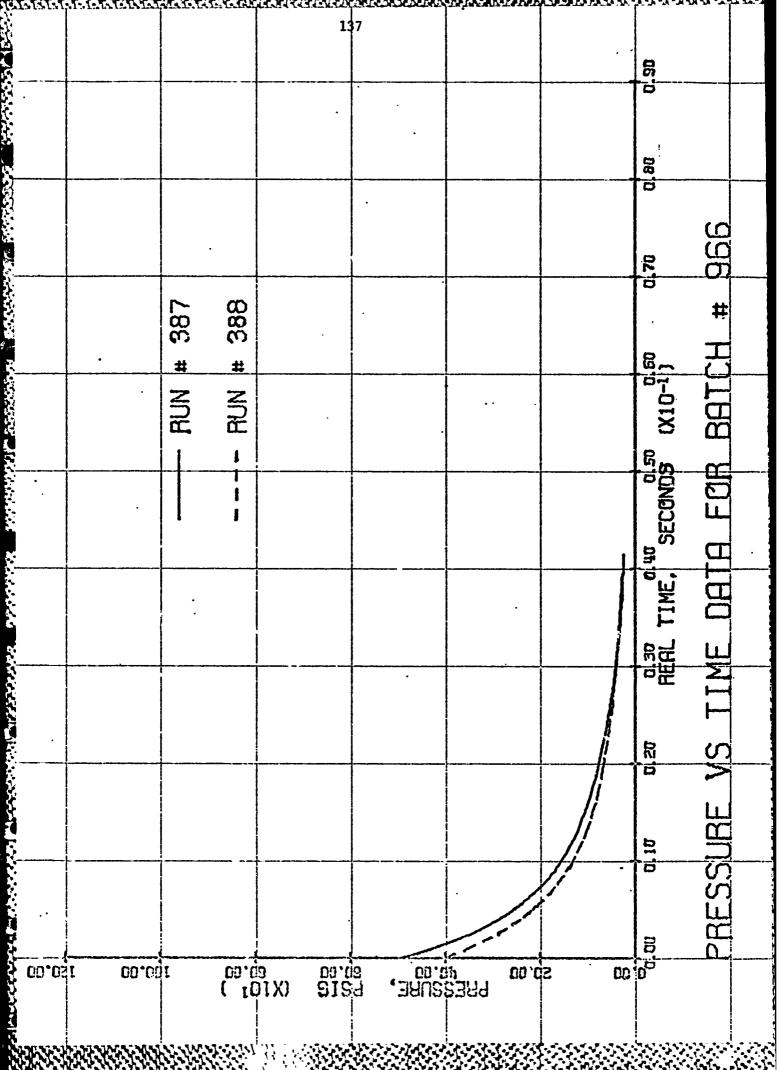




## PATCH # 955 / 80.0% AP, 20.0% PBCT

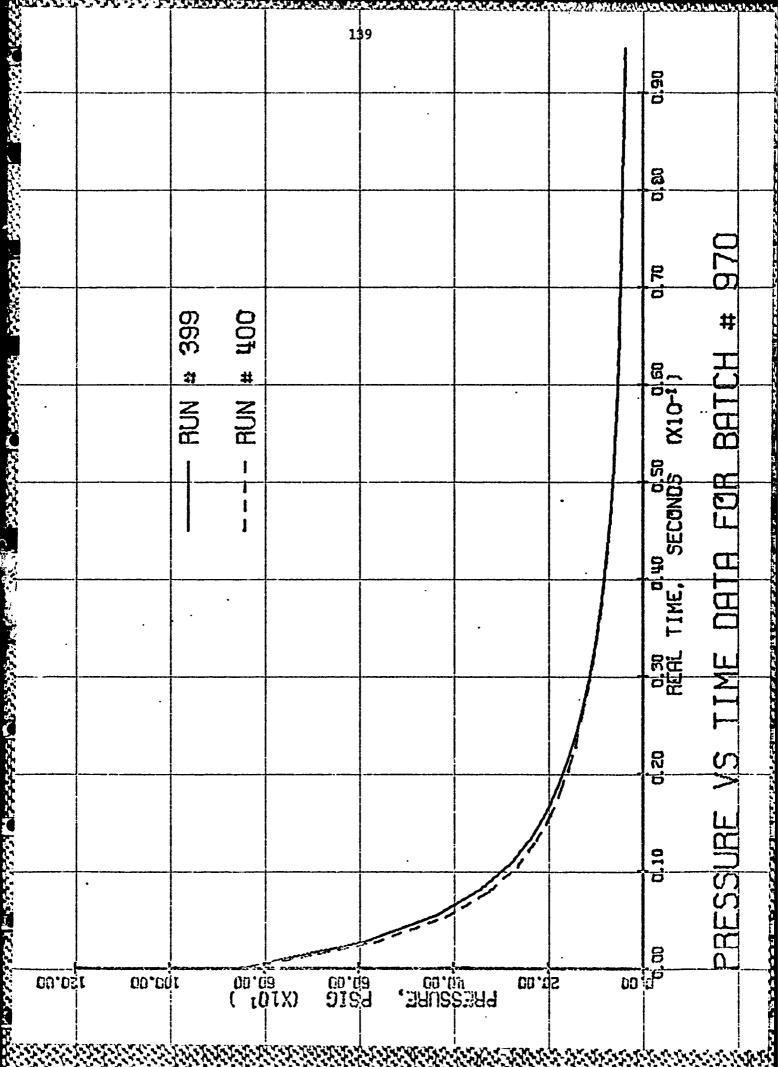
```
RUN # 385
DATA
                                          1=(TIME#RPEF##2)/ALPHA
                               LN(P)=4 +8*T +6*T**2 +0*T**3 +6*T**4
   TIME
                   LV(P)
                                             +F*T**5 +G*T**6 +H*T**7
 9.9
         1010.0
                            A= 0.3053735440-02
                  0.)
                                                 5= 0.7133391380-03
 0.0011
         900.0
                 -0.1153
                            B=-0.4394961960 00 F=-0.2820950240-04
 0.0030
          730.0
                 -0.3660
                            C = 0.6374360007-01
                                                  G= 0.4428257890-06
 0.0067
          492.0
                 -0.7192
                            0=-0.3732335530-02
                                                  H=-0.7079147590-09
          330.0
 0.0117
                 -1.1186
 0.0167
          230.0
                 -1.4795
                                    TIME
                                            p
                                                    LN(P)
 0.0217
          170.0
                 -1.7313
                                                  -2.3573
                                  0.0467
                                           58.0
 0.0257
          127.0
                 -2.0735
                                  0.0507
                                           49.0
                                                  -3.0259
 0.0317
           93.0
                 -2.3327
                                  0.0667
                                           43.0
                                                  -3.1565
           30.0
 0.0367
                 -2.5357
                                  0.0767
                                            38.0
                                                  -3.2801
DATA FROM RUN / 386
                                          T=(TI!E#RREF##2)/ALPHA
                              LN(P)=4 +3*T +C*T**2 +0*T**3 +F*T**4
   TIME
            Ç
                   FA(6)
                                            +F#T##5 +G#T##6 +H#T##7
 0.0
        1045.0
                  0.0
                            A= 0.4677453310-02
                                                 F= 0.1547693990-02
 0.0041
         65).0
                 -0.4595
                            8=-0.5146475930 99
                                                 F=-0.8519239950-04
 0.0091
                 -0.9115
         420.0
                            C= 0.9149630200-01
                                                 G = 0.2395067810-05
 0.0141
          308.0
                 -1.2217
                            D=-0.154575365D-01
                                                 d=-0.2683174110-07
 0.0191
         229.0
                 -1.5181
 0.0241
         175.0
                 -1.7370
                                    TIME
                                            P
                                                    LN(P)
 0.0271
         135.0
                 -2.0465
                                  0.0591
                                           50.0
                                                 -3.0397
 0.0341
         117.7
                 -2.2513
                                  0.0691
                                           0.58
                                                  -3.3142
 0.0391
           29.0
                 -2.4631
                                  0.0791
                                           32.0
                                                  -3.4950
 0.0491
           65.3
                 -2.777%
                                  0.0391
                                           28.0
                                                  -3.6196
DATA FROM PIL # 337
                                          T=(TIME=RREF==2)/ALPHA
                              LA(P)=A +3*T +C*T**2 +D*T**3 +E*T**4
   TIME
                   FA(6)
                                            +F#T##5 +G#T##6
         499.9
 0.0
                  ).7
                            4=-0.6109831340-02
                                                 T=-0.3691557000-03
 0.0015
         535.0
                 -0.2412
                            H=-0.5449301020 00
                                                 F= 0.6583098810-04
 0.0032
         31).)
                 -3.4573
                            C= 0.4505043740-01
                                                 G=-0.124494339D-05
 0.0054
         245.0
                 -0.7931
                            0 = 0.1324391620-02
         137.1
 0.063?
                 -1.0014
 9.0132
         12). 3
                 -1.4319
                                   71 (F
                                            Р
                                                    LV(P)
 0.0132
           32.0
                                 0.0332
                 -1.7377
                                           32.0
                                                 -2.7237
 0.0232
          52.)
                 -2.7573
                                 0.9332
                                           25.0
                                                 -2.9353
 0.023?
           45.1
                 -2.3577
                                 0.0452
                                           24.0
                                                 -3.0164
DIT1 F35 1 7U1, 4 353
                                          T=(T1):5503F5$#2)/ALDHA
                              LR( ?)= 1 +5#T +C#T##2 +0#T##3 +6#T##4
   TIT
                   1, ((2)
                                            +F*T**5 +3*T**6
0.0
         3 45.0
                            A= 0.6749413639-02
                  0.0
                                                E=-0.1357643349-02
 0.0011
         347.
                 -0.1295
                            ~=-0.4915904530 00
                                                 T = 0.1015713180-03
 3.0033
         247.7
                 -0.4005
                            (= 0.20234190))-01
                                                 9=-0.2712551360-05
         107.)
 0.0061
                 -- 7473
                            P= 0.6412609570-02
 0.7685
         147.0
                 -0.9835
 0.0111
         117.7
                 -1.1033
                                   TIME
                                                   L!(2)
          32.0
0.0161
                 -1.5722
                                 0.0311
                                           37.0
                                                 -2.3530
0.0211
          43.7
                 -1.3045
                                 J. 0351
                                           30.0
                                                 -2.5777
 0.0251
          47.0
                 -2.1297
                                 0.3411
                                           25. 2
                                                 -2.7500
```

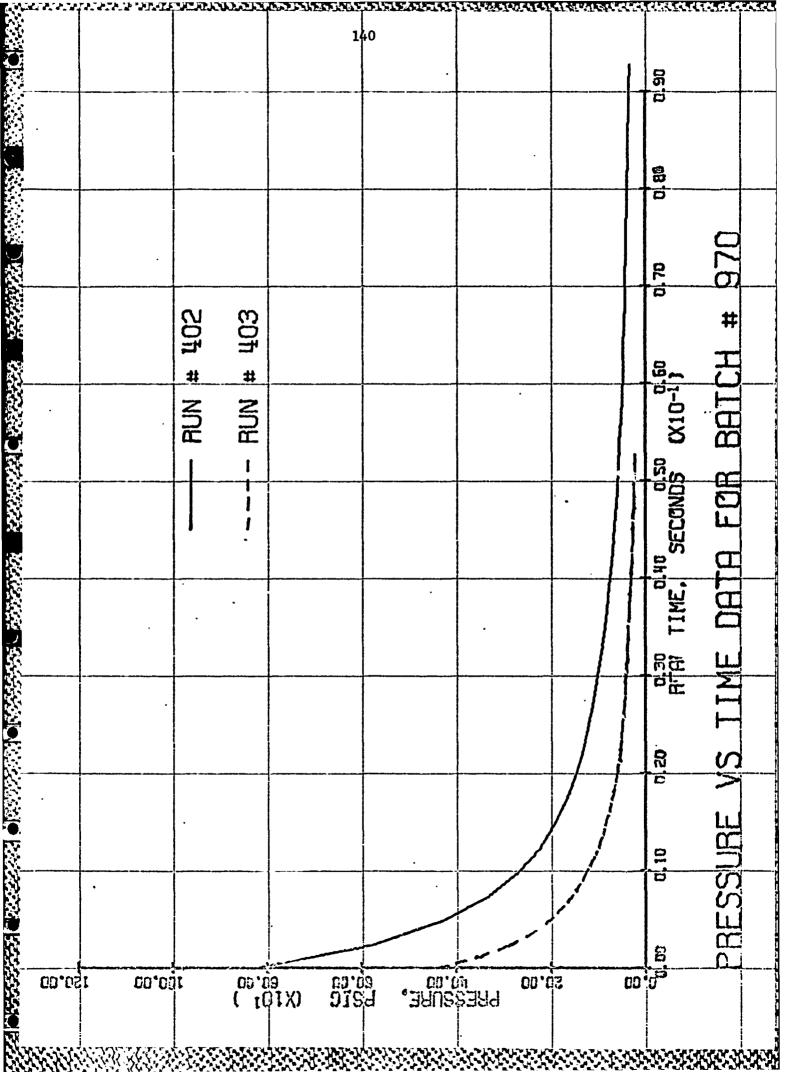
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BATCH # 970 / 80.03 AP, 20.0% PU
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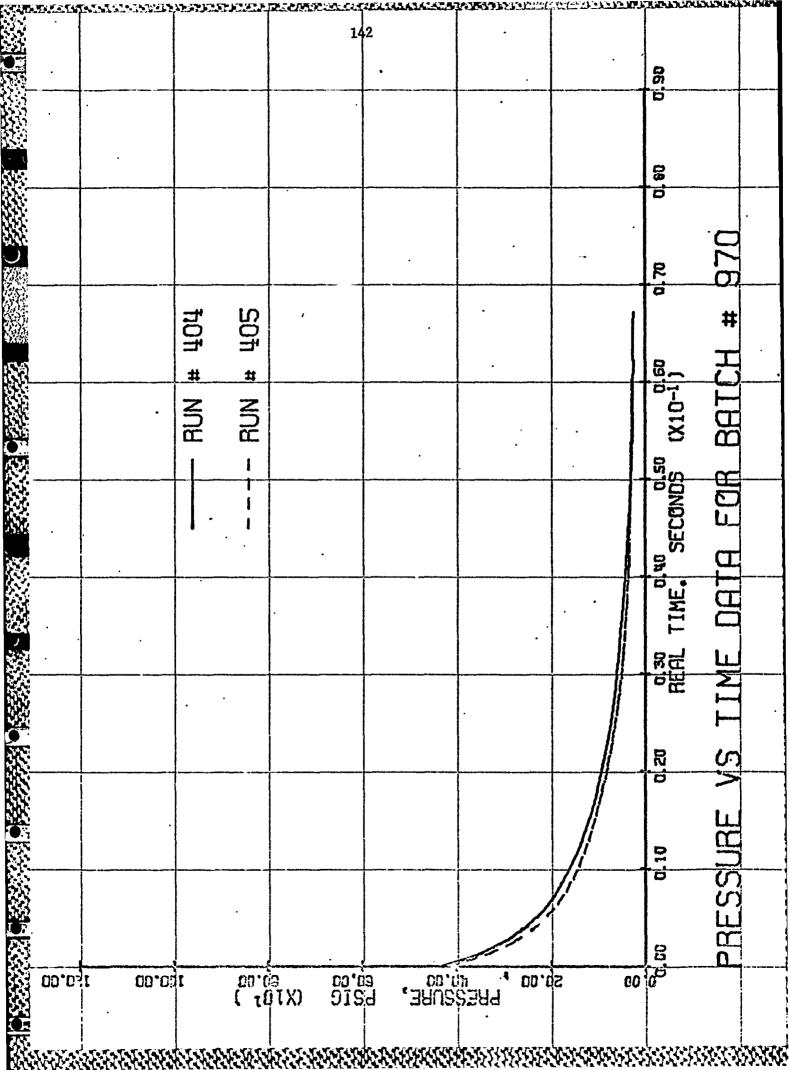
```
DATA FROM RUN # 399
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +8*T +C*T**2 +0*T**3 +E*I**4
            ø
                                            +F+I++5 +G+T++6 +H+T++7
   TIBE
                   EN(P).
 0.0
          353.0
                            A=-0.1984031840-01
                                                E= 0.9107603595-03
                  9.9
 0.0023
         593.0
                 -3.3725
                            6=-0.513329345) 00 F=-0.3668987750-04
 0.0123
          255.0
                 -1.2249
                            C = 0.1022400020 00 G = 0.7699701400-06
 0.0223
          150.0
                 -1.7555
                            D=-0.1253160997-01
                                                H=-0.6450511350-08
 0.0323
          102.0
                 -2.1412
 0.0423
          75.7
                                    TIME
                                            P
                 -2.4437
                                                   LN(P)
 0.0523
           50.0
                 -2.6718
                                 0.0923
                                           37.0
                                                 -3.1553
 0.0623
           50.0
                 -2.3542
                                 0.1023 + 33.0
                                                 -3.2597
 0.0723
           45.0
                 -2.9595
                                 0.1123
                                           31.0
                                                 -3.3322
 0.0823
           40.0
                 -3.0773
                                 0.1323
                                           26.0
                                                 -3.5031
DATA FROM RUN # 400
                                          T=(TIME=PPEF##2)/ALPHA
                              LV(P)=4 +3*[ +C*[**2 +D*[**3 +E*[**4
                   F.1(5)
   TIME
                                            +F*T**5 +G*T**6 +H*T**7
 0.0
          335.0
                  0.0
                            A= 0.4025475600-02
                                                F= 0.1164897150-02
                 -0.4175
 0.0029
          550.0
                            3=-0.5733#13600 00
                                                F=-0.4771778930-04
 0.0079
         320.0
                 -0.9591
                            C = 0.1245109330 00
                                                G= 0.191976286D-05
 0.0179
          175.0
                 -1.5026
                            0=-0.1581751980-01
                                                H=-0.363362029D-03
 0.9329
          102.2
                 -2.1223
 0.9379
                                                   LN(P)
           35.0
                 -2.2343
                                    TIVE
                                            Þ
 0.0479
           55.0
                                           40.0
                 -2.5530
                                 0.0879
                                                 -3.0386
 0.0579
           55.7
                 -2.7201
                                 0.0979
                                           35.0
                                                 -3.1721
 0.0579
           47.0
                 -2.3773
                                                 -3.2309
                                 0.1079
                                           33.0
 0.0777
           43.0
                 -2.9542
                                 0.1279
                                           25.0
                                                 -3.5096
SCA # PUR PERR ATAG
                                          T=(TIME=RREF==2)/ALPHA
                              LN(P)=A +3*T +C#T##2 +D#T##3 +E#T##4
   TITE
            د
                   LA(D)
                                            +F#T##5 +S#T##6 +H#T##7
 0.0
         822.0
                  0.0
                            A=-0.1041747350-01
                                                E= 0.6300719790-03
 0.0019
        602.0
                 -0.3115
                            9=-0.6429133469 00
                                                F=-0.2193433590-04
 0.0045
         445.0
                 -7.5137
                            C = 0.9673901930 - 01 G = 0.3943065640 - 06
 0.0095
         270.3
                 -1.1133
                            0=-0.1012761059-01
                                                H=-0.2930335690-03
 0.0145
         195.0
                 -1.4387
                 -2.1066
 0.0295
          193.9
                                    TIME
                                            P
                                                   [N(P)
 0.0395
          73.3
                                           33.0
                 -2.4213
                                 0.0795
                                                 -3.0742
 0.9495
          52.7
                 -2.5174
                                 0.0595
                                           34.0
                                                 -3.1454
          47.3
 0. 3595
                                 0.0995
                 -2.3c16
                                           30.0
                                                 -3.3105
 0.0695
           42.0
                 -2.0741
                                 0.1195
                                           22.0
                                                 -3.5207
DYTA F 101 RUN : 403
                                          T=(TIME*PREF##2)//LPHA
                              LN(P)=A +5#T +C#T##2 +9#T##3 +E#T##4
   11. :
                   L 1(P)
                                            +F#T##5 +G#T##6 +P#T##7
 0.0
          437.
                  3. 3
                            A= 0.1310091927-01
                                                F= 0.1625766529-91
                                                F=-0.162335196D-02
 3.0023
          303.3
                 -0.3357
                            2=-0.3210571550 00
                            C= 0.2:75434550 00 G= 0.8134053410-04
 0.0050
         200.0
                 -7.7655
 0.9371
                 -1.3:55
          143.3
                            0=-3.8825104290-01
                                                - H=-0.1405013930-05
 0.0100
          120.0
                 -1.2275
 0.015)
           33.3
                                            Ð
                                                    [ 17(2)
                 -1.5:40
                                    11.3
                                           30.0
 0.0200
           55.0
                 -2.03354
                                 0.0400
                                                 -2.6525
           45.7
 0.0250
                 -2.1926
                                 0.0450
                                           26.0
                                                 -2.3757
 0.0303 -
           41.0
                 -2.350?
                                 0.0500
                                           23.7
                                                 -2.9233
                 -2.5084
 9.935)
           35. 1
                                 0.0550
                                           22.5
                                                 -2.3727
```

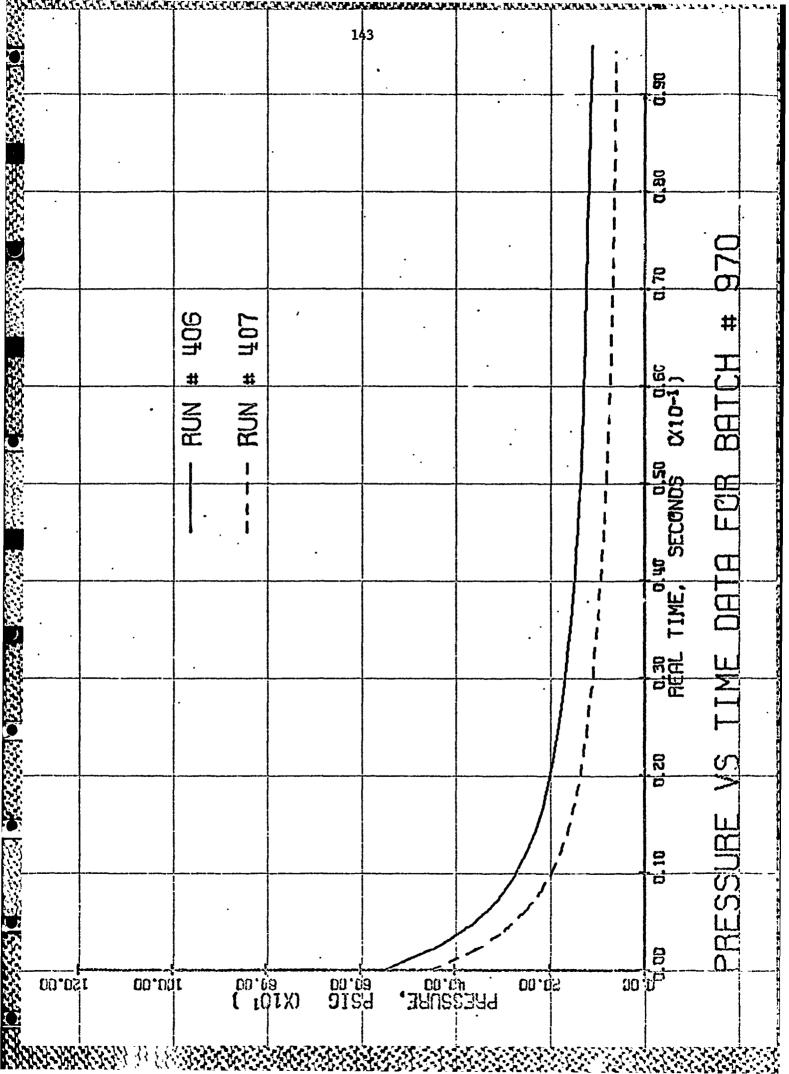




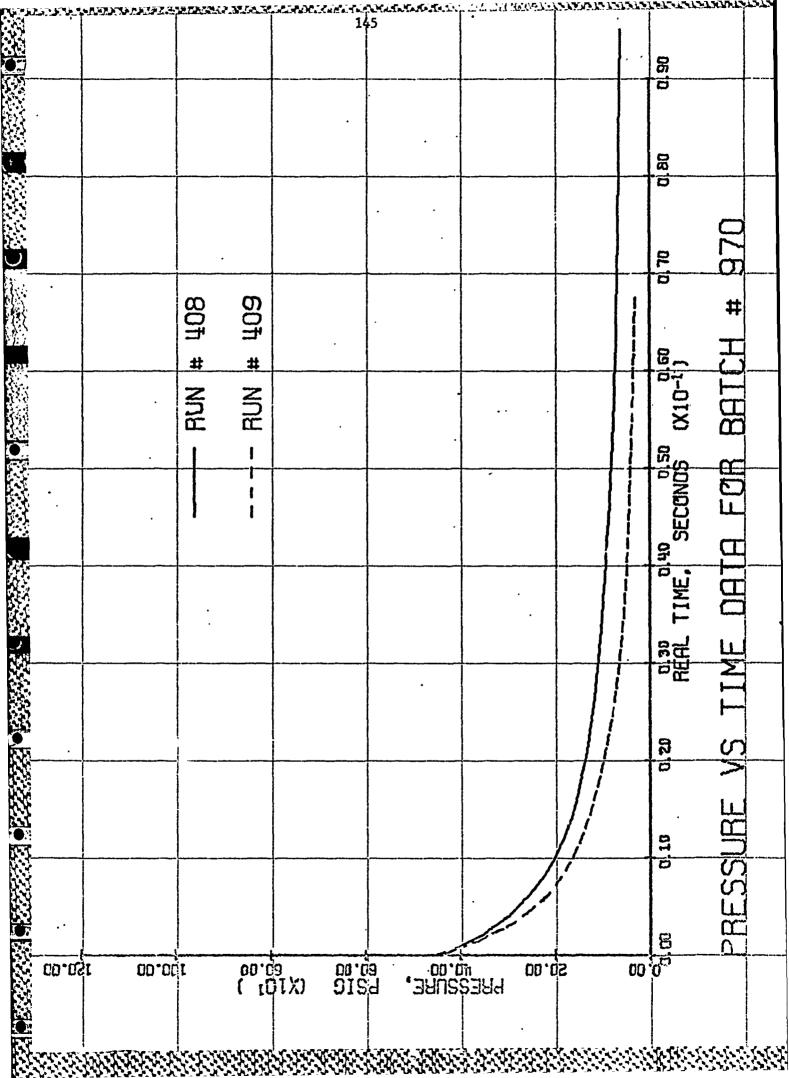
ም ተቀቀቀው የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት የተፈጠረት

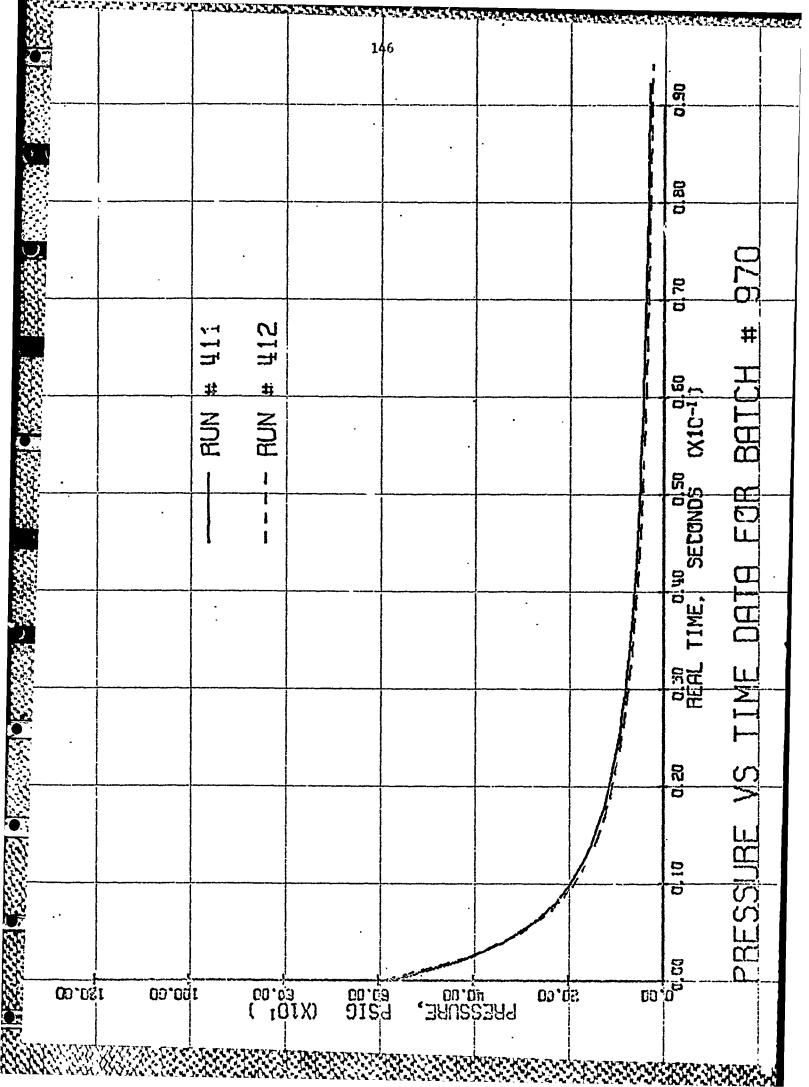
```
T={TIME#RREF##2}/ALPHA
DATA FROM RUN & 404
                            EN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
                                          +F*T**5 +G*T**6 +H*T**7
           Ç
                  LV(P)
   LINE
                                              E= 0.8142809980-02
                          4=-0.1336557950-02
         433.0
                 0.0
0.0
                                              F=-0.5695324900-03
                          8=-0.6386591307 00
                -0.3534
         302.)
 J.0024
                                              G= 0.2822351690-04
                          C= 0.2162945530 00
                -3.6257
         233.0
 0.0050
                                              H=-0.4736020900-05
                          9=-0.5493251130-01
                ~0.3598
         132.3
 0.0080
                -0.9986
         160.0
 0.0103
                                                 LN(P)
                                         Р
                                  TIME
                -1.2763
         120.0
 0.0150
                                               -2.3261
                                         42.0
                                0.0400
                -1.5540
          99.0
 0.0200
                                               -2.5625
                                0.0500
                                         30.0
                -1.7733
 0.0250
          73.0
                                               -2.3449
                                         25.0
                                0.0690
                -1.9594
          60.0
 0.0300
                                               -2.9637
                                         22.2
                                0.9799
                -2.1518
          50.0
 0.0357
                                        T=(TIME#RREF##2)/ALPHA
DATA FROM RUN # 405
                             LM(0)=4 +3*T +C#T##2 +C#T##3 +E#T##4
                                          +F*T**5 +G*T**6 +H*T**7
                  LNIPI
           ø
   TIME
                                              E = 0.5564837510-02
                           \Lambda = 0.1926857219-02
         415.7
                 9.3
 0.0
                                               F=-0.358553943D-03
                           8=-0.7519510690 00
                 -0.4676
         267.7
 0.0031
                                              G= 0.1149893240-04
                           C= 0.223912726D 00
                 -0.9407
         152.0
 0.0081
                                               H=-0.1461043180-05
                           D=-0.4305620430-01
                 -1.2408
         120.0
 0.0131
                 -1.5235
          22.3
 1616.0
                                                 LN(P)
                                          P
                                  TIME
                 -1.7798
          70.0
 0.0231
                                              -2.5943
                                         31.0
                                0.0431
           55.0
                 -2.0209
 0.0281
                                               -2.5610
                                         29.0
                                0.0531
                 -2.7671
           43.0
 0.0331
                                               -2.6951
                                0.0581
                                         28.0
                 -2.3907
 0.0381
           33.0
                                               -2.7324
                                         27.0
                                0.0631
           34.0
                 -2.5019
 0.0431
                                        T=(T1ME#RREF##2)/ALPHA
DATA FROM RUN # 406 .
                             LN(P)=4 +9+T +C+T++2 +D+T++3 +E+T++4
                                           +F#T##5 +G#T##6 +H#T##7
                   F11(0)
            5
    TIME
                                               E= 0.6532503260-03
                           A=-0.5062280040-03
          547:0
                  0.0
 0.0
                           P=-0.4409304230 00 F=-0.2573204130-04
  0.0033 1400.0
                 -0.3130
                           252.1
                 -0.7750
 9.0113
                                               H=-0.4461979440-08
                           r=-0.9455454GJD-02
                 -1.0418
          193.)
 0.0213
                 -1.1397
          175.0
  0.0263
                                                  LN (P.)
                                   TIME
                                           P
                 -1.2740
          153.7
  0.0363
                                         114.0
                                                -1.5533
                                 0.033
                 -1.3328
  0.0453
          140.0
                                                -1.6131
                                         109.0
                                 0.0953
                 -1.4524
          125.0
  0.0553
                                                -1.5501
                                 0.1063
                                         104.0
                 -1.4761
          125.0
  0.0553
                                                -1.6795
                                 0.1153
                                         102.0
                 -1.5333
          113.9
  0.0763
                                         T=(T14F#R35F##2)/ALPHA
 347: FF34 FF - 437
                             1.(2)=A +ost +Cstrs2 +7strs3 +Estrs4
                                           4F4T445 +94T446 +H4T447
                   1.1(0)
    TISE
                            3.0
          440.0
  0.0
                            e=-7.5014276127 00 F=-7.1384349390-04
                 -0.3455
  0.0033
          213.3
                                                G= 0.2940322520-06
                            C= 0.5703732720-01
                 -0.7274
          215.3
  0.0053
                            n=- 0.0406333630-02 H=- 0.146200=550-08
                 -3.1921
          165.0
  0.0133
                 -1.1554
          143.3
  0.0133
                                                  L'1(P)
                                           2
                                   11.5
                 -1.2495
  0.0233
          125.7
                                                -1.3934
                                          57.7
                                 0.0523
                 -1.5531
          115.0
  0.0233
                                                -1.9392
                                 J.0783
                                          54.0
                 -1.5655
           93.9
  7.3333
                                 0.1233
                                                -1.4372
                                          41.15
                  -1.4714
           32.7
  0.7463
                                          60.3
                                                 -2.0037
                                 0.0933
                  -1.790)
   7. 7533
            7.1.)
```



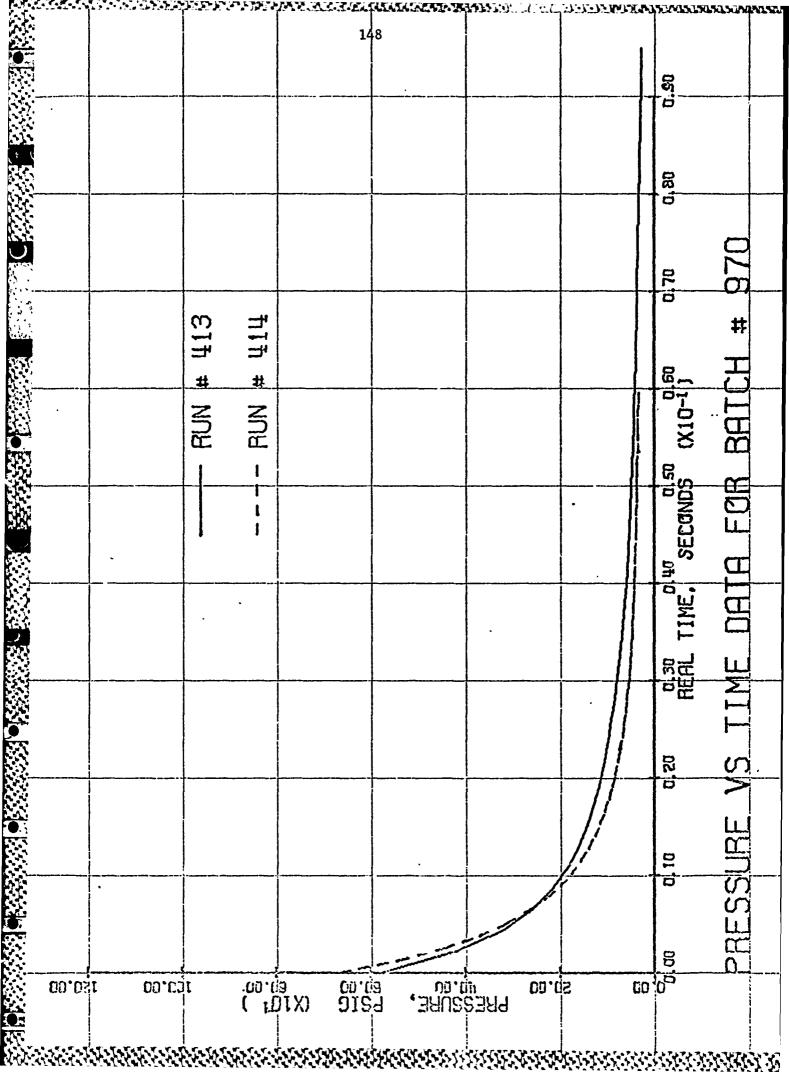


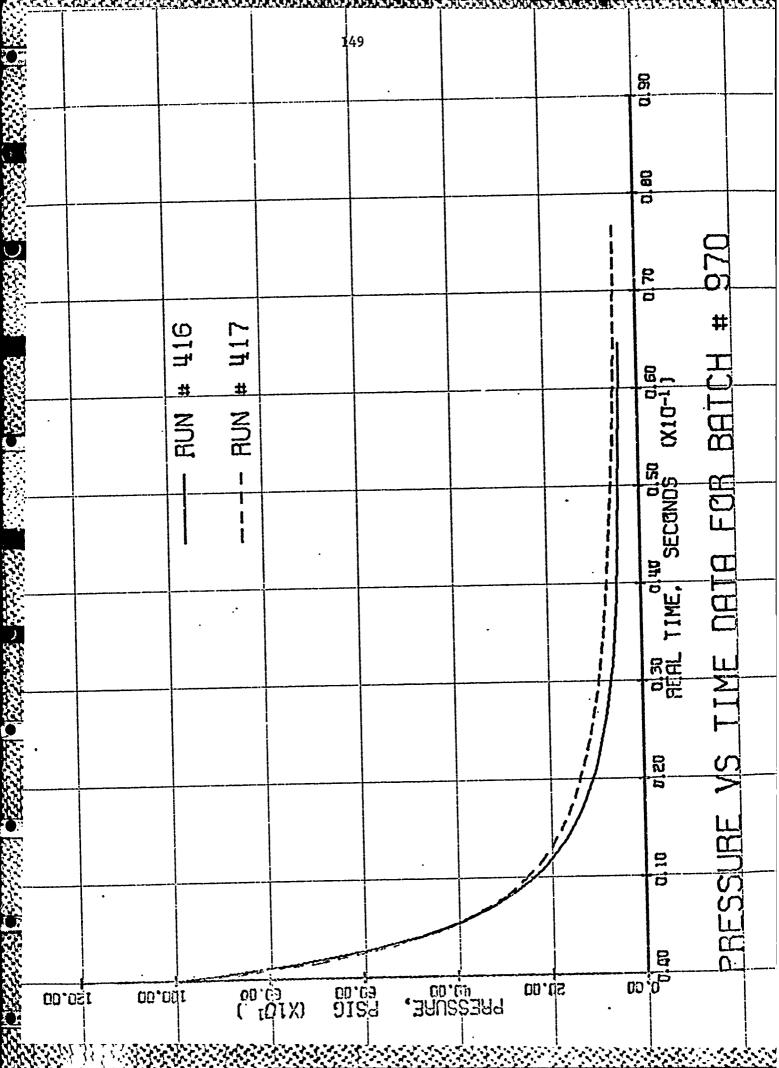
```
DATA FROM RULE 403
                                           T=(TIME#RREF##2)/ALPHA
                               LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
            P
    TIME
                    LV(P)
                                             +F#T##5 +G#T##6 +H#T##7
 0.0
          435.0
                   0.0
                             A= 0.2713301230-02
                                                  E= 0.203575891D-03
          300.0
                  -0.3716
 0.2040
                             B=-0.4412652760 00
                                                  F=-0.877459725D-06
 0.0090
          210.0
                  -0.7282
                             C = 0.6274333350-01
                                                  G=-0.154763101D-06
 0.0140
          165.0
                  -0.3694
                             0=-0.5242300750-02
                                                 H= 0.3043706850-08
 0.0190
          139.7
                  -1.1409
 0.0240
          125.)
                  -1.2470
                                    TIME
                                             P
                                                    LN(P)
 0.0290
          110.0
                  -1.3749
                                  0.0590
                                            63.0
                                                  -1.8558
 0.0390
           93.3
                  -1.5427
                                  0.0790
                                            55.0
                                                  -1.9010
 0.0493
           22.0
                  -1.6685
                                  0.0890
                                            52.0
                                                  -1.9432
 0:0590
           73.3
                  -1.7349
                                  0.0990
                                            60.0
                                                  -1.9810
DATA FROM PUN # 409
                                           T=(TIME#RREF##2)/ALPHA
                               LN(P)=A +B#T +C#T##2 +D#T##3 +E#T##4
   TIME
            ρ
                    LV(P)
                                             +F*T**5 +G*T**6
          445.)
 9.0
                   0.0
                             A= 0.1235473110-01
                                                  E= 0.2298580020-02
 0.0007
          411.3
                  -0.0319
                            S=-0.5525199130 00
                                                 F=-0.1069597770-03
 0.0057
          225.1
                  -7.5320
                            C= 0.1463553105 00
                                                  G= 0.1936383560-05
 0.0107
          155.0
                 -1.0546
                            0 = -0.2455106770 - 01
 0.0157
          113.0
                 -1.3274
 0.0207
           94.0
                 -1.5549
                                    TIME
                                             P
                                                    LN(D)
 0.0257
           75.0
                 -1.7806
                                  0.0507
                                           39.0
                                                  -2.4345
 0.0307
           52.0
                 -1.9709
                                  0.0607
                                           33.0
                                                  -2.5016
 0.0407
           47.)
                 -2.2479
                                  0.0707
                                           32.0
                                                  -2.6323
DATA FROM RUN # 411
                                          T=(TI 4F*RPEF**2)/ALPHA
                              LN(P)=4 +8*T +C*T**2 +9*T**3 +E*T**4
   TIME
            Ð
                   FA(0)
                                             +F*T**5 +G*T**6 +H*T**7
 9.9
          545.0
                  7.7
                            A= 0.5125331540-02
                                                  F= 0.136034569D-02
 0.0011
         435.0
                 -0.1527
                            8=-0.6413574250 00
                                                F=-0.593847433D-04
                 -0.7495
 0.0061
          207. 7
                            C= 0.1152175860 00
                                                  G= 0.187947155D-05
 0.0111
          173.7
                 -1.1550
                            D=-0.1569728969-01
                                                  H=-0.207355933D-07
 0.0161
          135.0
                 -1.4316
 0.0211
         107.5
                 -1.5540
                                    TIVE
                                            P
                                                    LH(P)
 0.0261
           90.0
                 -1.3370
                                 0.0661
                                           33.0
                                                  -2.6992
 0.0361
                 -2.1524
           55.0
                                 0.0761
                                           34.0
                                                  -2.3105
 0.0451
           54.)
                 -2.3478
                                 0.0351
                                           31.0
                                                  -2.9028
 0.0551
           45.3
                 -2.5302
                                 0.0961
                                           37.7
                                                  -2.9356
DATA FROIT (J. > 412
                                          T=(TI:E#SSEF##2)/ALPHA
                              L (P)=A +3*T +C*T**2 +5*T**3 +E*T**4
   TIME
                   F.1(5)
                                            +F#T##5 +G#T##6 +H#T##7
 0.0
         533.0
                  0.0
                            4=-0.1019190025-03
                                                 F= 0.1014663135-02
 0.0033
         35).)
                 - 3.4355
                            3=-0.5312417130 00
                                                 F=-0.4145582150-04
 0.0093
         212.7
                 -1.0150
                            C= 0.1179208490 00
                                                  G= 0.291178501D-06
 0.0183
         115.5
                 -1.7267
                            D=-0.1415737950-01
                                                 H=-0.7803493030-09
 0.0263
          73.0
                 -2.3149
 0.0333
                 -2.3112
                                   TIME
                                            Ç
                                                    LN(?)
 0.0423
          40.3
                 -2.5 .49
                                 ).0055
                                           25.0
                                                 -3.1135
          38.0
                 -2.7340
0.0533
                                 010933
                                           24.0
                                                 -3.1936
0.0593
          33.7
                                 0.1053
                 -7.751
                                           22.0
                                                 -3.2006
 0.0783
          29.5
                 -3.7043
                                 6.1143
                                           20.0
                                                 -3.3759
```





```
BATCH # 970 /
                30.03 AP. 20.09 PU
DATA FROM RUM # 413
                                        T=(TIME*CREE**2)/ALPHA
                             LN(P)=A +8*T +8*T**2 +P*T**3 +8*T**4
   TIME
           :
                  LN(P)
                                           +F*T**5.+G*T**6 +H*T**7
 0.0
         575.0
                  0.0
                           A=-0.4787436220-03
                                               \Gamma = 0.1125451000-02
 0.0007
         515.0
                 -0.1102
                           B=-0.4535422700 00 F=-0.4897230830-04
         275.1
 0.9957
                 -3.7375
                           C= 0.1153658540 00 G= 0.1115236680-05
 0.0107
         155.7
                 -1.1340
                           0=-0.1471248300-01
                                              H=-0.1033493640-07
 0.0157
         135.0
                -1.4491
 0.0257
          73.7
                 -1.8545
                                  TIME
                                           2
                                                  LN(2)
 0.0357
          55.0
                 -2.1300
                                0.0757
                                          33.0
                                                -2.3579
 0.0457
          52.3
                 -2.4031
                                7.0857
                                         29.0
                                               -2.9871
 0.0557
          42.0
                -2.6157
                                0.0957
                                          25.0
                                                -3.1355
 0.0557
          33.0
                 -2.7163
                                0.1057
                                         21.0
                                                -3.3098
DATA FROI RUN & 414
                                        T=(TIME#RREF##2)/ALPHA
                             L.(P)=A +8#T +C#T##2 +0#T##3 +E#T##4
   11117
                  LY(P)
                                           ナデネチ キネジ
 0.0
         620.0
                 0.0
                           A=-0.2594639470-01
                                              D=-0.601023266D-02
 0.0023
         44).9
                -0.4353
                           3=-0.6711206840 00 F= 0.2999533930-03
 2.0273
         235.3
                -1.0525
                           C= 0.7527297519-01
                                              F=-0.6842565930-05
 0.0123
         149.0
                -1.5249
                                  TIRE
                                          þ
                                                  LN(P)
 0.0173
         100.0
                -1.9169
                                0.0423
                                         40.0
                                               -2.8332
 0.0223
          70.0
                -2.2730
                                0.0523
                                         35.0
                                               -2.9657
 0.0323
          50.0
                -2.5101
                                0.0523
                                         30.0
                                                -3.1209
DATA FROM RUR & 416
                                        T=(1IME#RREF##2)/ALPHA
                             L1(P)=A +B#T +C#T##2 +D#T##3 +E#T##4
   TIKE
           Þ
                  (a)(a)
                                          +F*T**5 +G*T**6
 0.0
         943.)
                 J.7
                           0.0024
         630.0
               -0.4295
                           8 = -0.3305524247 00 F = -0.108676723D - 03
 0.0054
         400.0
                -0.3528
                           C= 0.1477024950 00
                                              G= 0.2034615630-05
 0.0074
         3)7.1
                -1.1434
                           0=-0.2261131830-01
 0.0124
         155.3
                -1.5435
 0.0174
         125.0
                -2.0333
                                          Ρ
                                  T145
                                                 FA(5)
          95.7
 3.0224
                -2.3214
                                0.0474
                                         45.0
                                              -3.0585
 0.0274
          7:0)
                -2.0207
                                0.0574
                                         47.0
                                               -3.1364
 0.0374
          52.1
                -2.3249
                                0.0574
                                         33.
                                               -3.2376
DATA FROM %3" = 417
                                        T=(T1 '5#86, FF ##2)/ALPH1
                             L :(2)=4 +34T +C#T##2 +O#T##3 +8#T##4
  11...=
                  1:(2)
                                          $ P V T X P 5 + G P T P P 5 + 12 T P X 7
0.0
         247.3
                 7.7
                           0.0005
         35).)
               -).3911
                           P=-0.02:9-34300 00 F=-0.1576353050-03
9.3025
         ~ ?). ~
                -3.4511
                           C= 0.1500845500 00
                                              G= 0.5244236550-05
         5 5.4
 0.0050
                - 3. 34.73
                           7#-7.2541597537-01
                                               H=-0.713488324.-07
0.0074
         333.3
                -1.7777
 J. 3105
         235.3
                -1.3:14
                                  TI
                                                 1 1(2)
0.0155
         133.3
                -1.7243
                                0.0500
                                         59.4
                                               -2.7705
 3.72 3
         1:2.5
                -1.3552
                                9.0705
                                         57.0
                                               -2.7311
 0.0300
                -2.3.41
                                3. 7.05
                                         .7.5
                                               - 2.997:
 0.3405
          11.7
                -2.5905
                                1.0305
                                         44.0
                                               -3.0638
```





```
BATCH 4 970 /
              20.03 AP, 20.03 PU
DATA FROM PUNER 413
                                        T=(TIME#RPEF##2)/ALPHA
                             L'4(P)=4 +8+1'+0+T++2 +0+T++3 +E+T++4
           O
                  L4(P)
                                           +F*T**5 +6*T**6 +H*T**7
   TIME
 0.0
         903.0
                           A=-0.6553042490-02
                                               E=-0.283899230D-03
                 0.0
 0.0003
         920.0
                -0.1659
                           B=-0.7337512140 00 F= 0.6369524470-04
 0.0024
         600.0
                 -0.4733
                           C= 0.1069405230 00 G=-0.3167829150-05
 0.0343
         440.0
                -0.7385
                           D=-0.9303754747-02
                                              H= 0.525765313D-07
 0.0073
         300.0
                -1.1714
 0.0103
         213.0
                -1.4907
                                  TIME
                                          Р
                                                  LN(P)
 0.0151
         151.0
                -1.7939
                                0.0503
                                         40.0
                                               -3.1364
 0.0205
         112.7
                -2.1557
                                         33.0
                                0.0698
                                               -3.3737
 0.0303
          75.7
                -?.5477
                                0.0703
                                         29.0
                                                -3.5079
 0.0403
          50.0
                -2.9532
                                0.0308
                                         25.0
                                               -3.6171
DATA F777 3J. 4 419
                                        T=(TIME#RREF##2)/ALPHA
                             LN(P)=4 +84T +C#T##2 +0#T##3 +F#T##4
   TIME
           2
                  [N(3)
                                         . +F*T**5 +G*T**6 +H*T**7
 0.0
         712.0
                 0.0
                          \Delta = 0.1323902770-01
                                               E= 0.1951347580-02
 0.3043
         325.5
                -2.5892
                           8=-0.7513556400 00 F=-0.915275665D-04
                           0.0093
         223.0
                -1.1744
         17?.3
 0.0143
                           D=-0.2321892750-01
                                              H=-0.2105459710-07
                -1.4205
 0.0193
         132.0
                ~1.6353
         125.0
                                          P
                                                 LN(P)
 0.0243
                -1.9141
                                  T1 %5
                                         33.0
 0.0293
          57.7
                -2.1922
                                0.0693
                                               -3.0716
 0.0393
          60.0
                                0.0793
                -2.4737
                                         23.0
                                               -3.2359
 0.0493
          45.0
                -2.7394
                                0.0893
                                         24.C
                                                -3.3900
 7.0593
                 -2.9045
                                0.0993
          39.0
                                         22.0
                                               -3.4770
DATA FROM RUN # 421
                                        T=(TIME#RREF##2)/ALPHA
                             LN(P)=A +3#T +C#T##? +0#T##3 +E#T##4
                . L1(P)
   TIME
                                           +F#1##5 +S#T##6 +H#T##7
 0.9
         712.2
                                              E= 0.1606566960-02
                 0.0
                           △=-0.532693014J-01
         500.0
 0.0013
                -2.3535
                           B=-0.7344955447 90 F=-0.7141431260-04
 0.0053
         333.0
                -9.3643
                           C= 0.1492248950 00 3= 0.1550326290-05
 0.0125 [135.0]
                           0 = -0.2023930790 - 01
                -1.3477
                                               H=-0.1543356270-07
 0.0225
         115.7
                -1.3231
 0.3325
          82.0
                -2.1514
                                  TIME
                                          ø
                                                  LN(P)
 0.1425
          54.0
                -2.4092
                                0.0825
                                         35.0
                                               -3.0127
 0.0525
          55.0
                -2.5007
                                0.0925
                                          30.0
                                               -3.1659
          45.7
                                0.1725
 0.0525
                -2.7514
                                         25.0
                                               -3.3492
 0.0725
          40.0
                -2.3732
                                0.1125
                                         20.5
                                                -3.5723
DATA 53 1 - 11 : 423
                                        T=(T148#PR86+##2)/ALPH1
                             1, 1(P)=A +3** +0****2 +0****3 +5****4
   TIVE
                  1, 4(2)
                                           ★FカTキキラ ★SカTキカら ★村のTキギア
         533.0
 J. 7
                           5=-0.1949551530-02
                                              - S= 0.1113008620-02
 0.0020
         355.0
                          3=-0.4523572000 00
                -1,4101
                                              F=-0.4:71441840-04
 3.0073
         212.)
                           -2.9257
 0.0135
         155.7
                -1.73 %
                           7=-7.1529725907-01
                                              H=-0.7516235450-09
         1.7.3
 0.0170
                -1.4665
                -1.173
 0.0223
           . P. O
                                  11'5
                                                 LHPI
                -1.7437
 0.0273
                                0.0473
                                         32.)
                                               -2.3145
 0.037
                -2.1373
                                0.077.
                                         .77.0
                                               -2.1154
          55.0
                -1.2749
 0.0170
                                0.0375
                                         22.3
                                                -3.1912
```

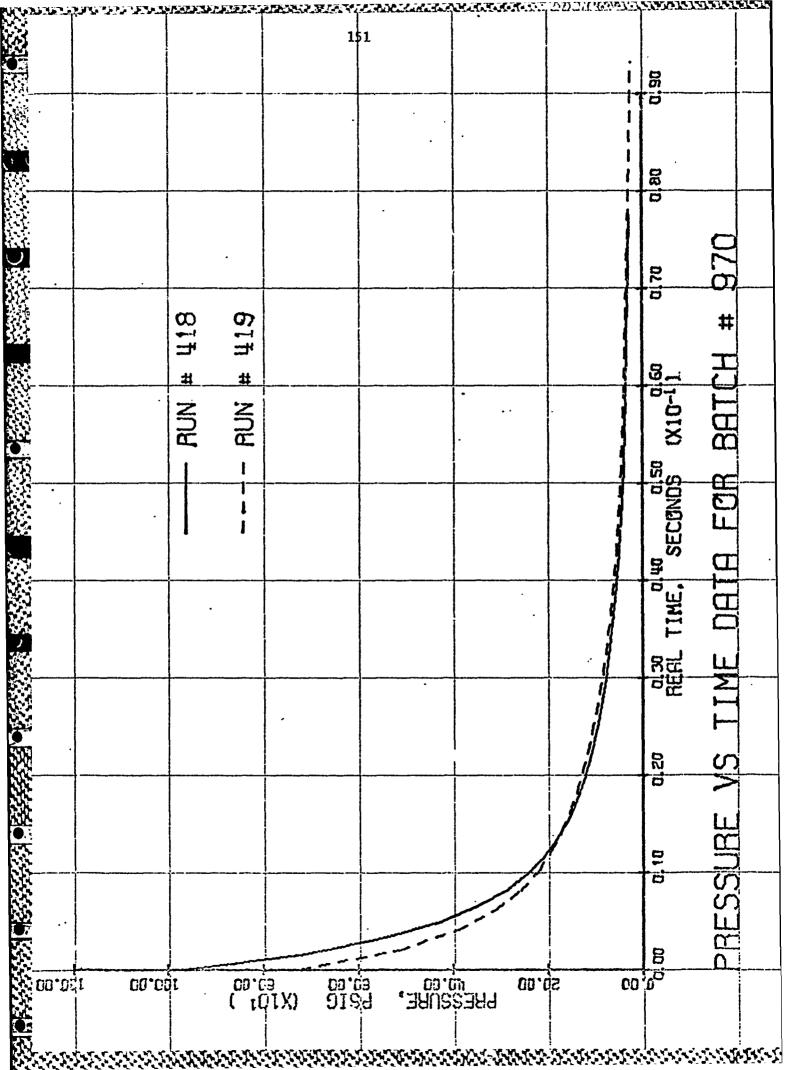
0...974 ..

-3.2055

3. 15.73

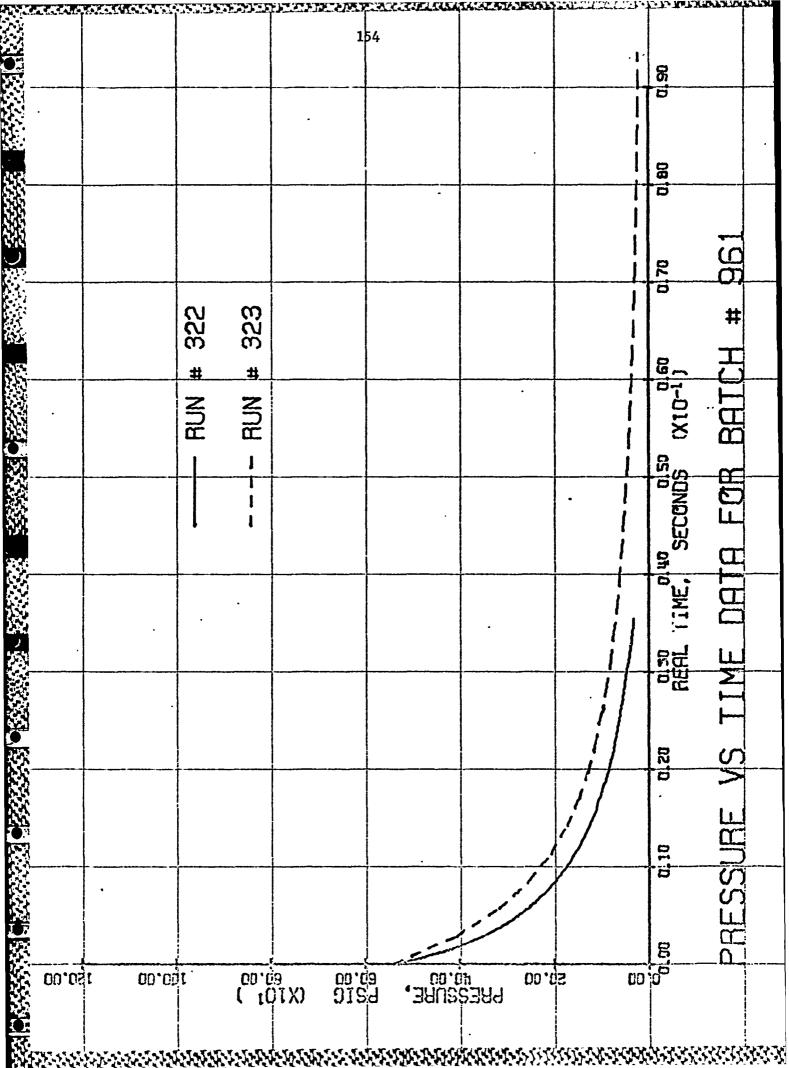
3).)

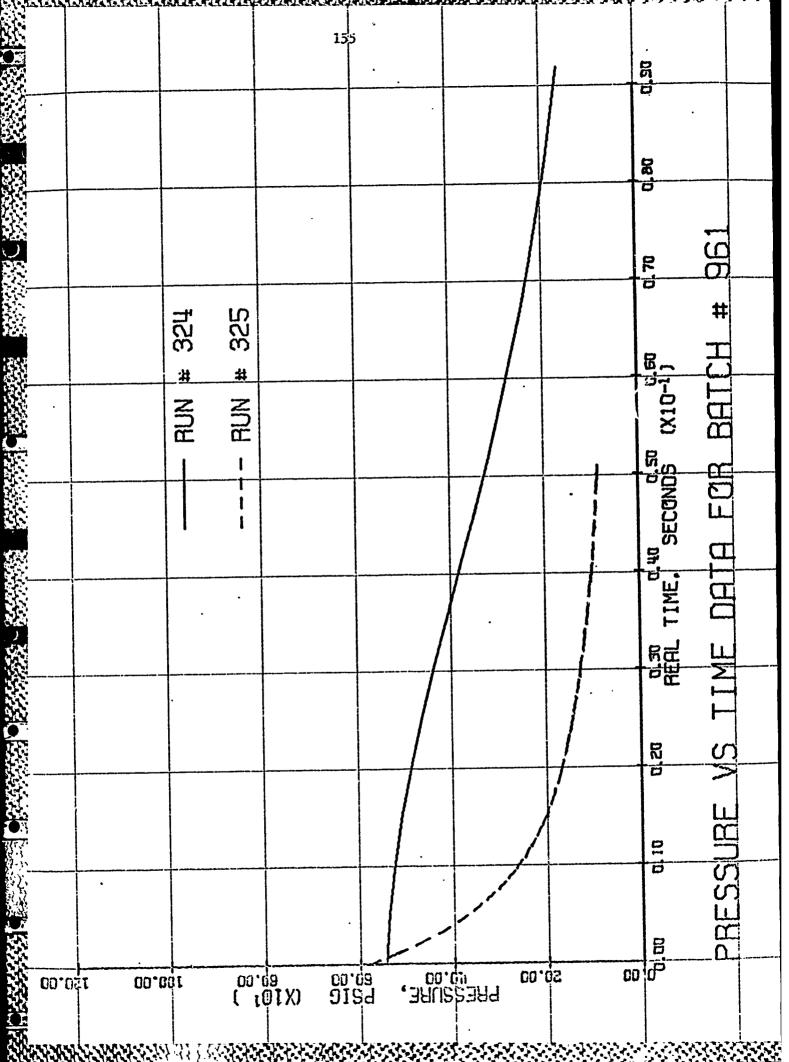
-2.5337



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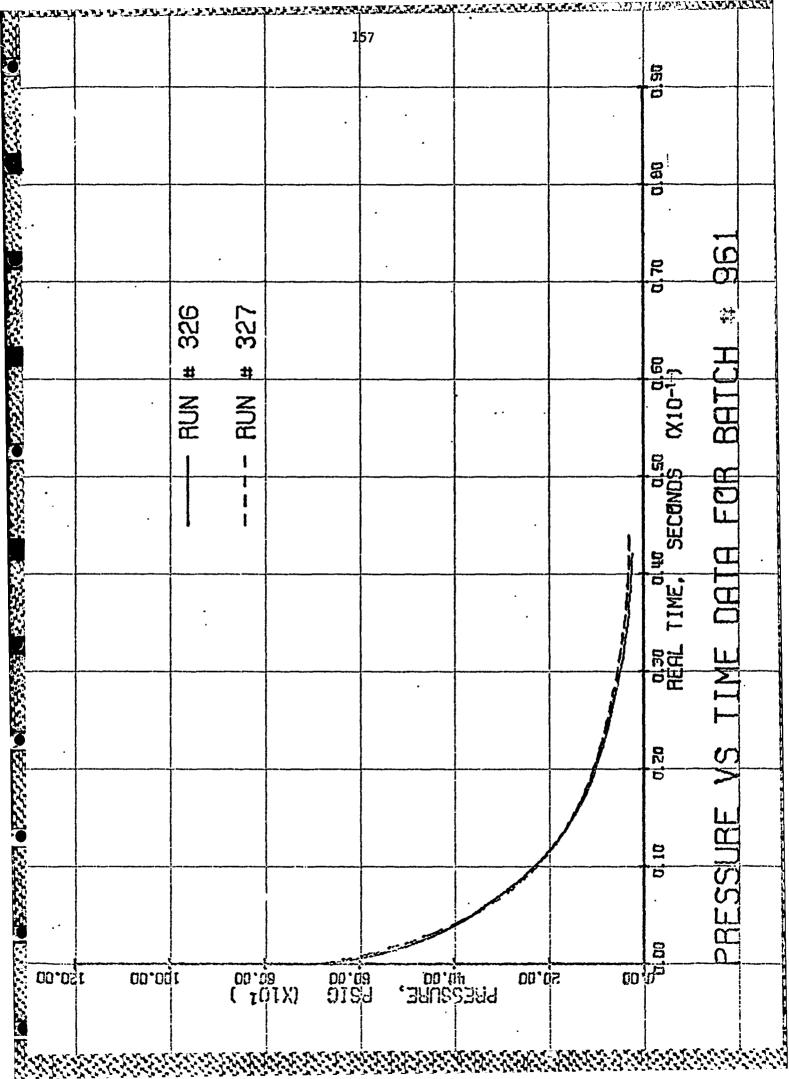
```
BATCH & 961 / 65.9% AP, 19.15 PSAA, 15.0% FINE AL
DATA FROM RUN & 322
                                         T=(T1ME*RREF**2)/ALPHA
                             LN(P)=A +3*T +C*T**2 +0*T**3 +E*T**4
   T1##
                   LY(P)
                                           +F*T**5 +G*T**6
 0.0
          530.0
                  0.0
                           A = 0.4107516970 - 03 = 0.5165310760 - 01
 0.0010
         455.0
                 -2.1526
                           B=-0.1137001430 01 F=-0.872520542D-02
 0.0019
          390.0
                 -0.3067
                           C= 0.4374294350 00 G= 0.4796973010-03
 0.0043
          295.0
                 -0.5859
                           D=-0.2236931120 00
 0.0069
          228.9
                 -0.3435
 0.0035
          195.0
                -3.9999
                                  TIME
                                          Ъ
                                                  LN(P)
 0.0119
          147.3
                 -1.2924
                                 0.0269
                                          55.0
                                                -2.2555
 0.0169
          103.2
                 -1.5381
                                 0.0319
                                          40.0
                                                -2.5840
 0.0219
           75.0
                 -1.9554
                                0.0369
                                          28.0
                                                -2.9407
DATA FROM RUN 4 323
                                         T=(TIME#RREF##2)/ALPHA
                             LN(P)=4 +3#T +C#T##2 +D#T##3 +E#T##4
   TIVE
                   LN(P)
                                           +F*T**5 +G*T**6 +H*T**7
         542. ?
 0.0
                  0.7
                           0.0039
         355.0
                 -0.3954
                           P=-0.6917165320 OC F= 0.4206353030-04
 0-0099
         245.0
                -0.7940
                           C= 0.3782608370-01
                                                G=-0.2251053800-05
 0.0137
         175.0
                 -1.1305
                           D = -3.6301472790 - 92
                                               H= 0.3300867229-07
         135.0
 0.0159
                 -1.3300
 0.0239
         105.0
                -1.5413
                                  TIME
                                           P
                                                  LM(P)
 0.0239
          93.7
                 -1.3179
                                0.0739
                                          25.0
                                                -3.0754
 0.0337
          £2.0
                 -2.1631
                                0.0939
                                          20.0
                                               -3.2995
 0.0489
          47.0
                -2.4451
                                0.1139
                                          15.0
                                                -3.5872
 0.0584
          33.0
                 -2.5577
                                0.1389
                                          10.0
                                                -3.9927
DATA FROM PUN + 324
                                        T=(TIME#FREF##2)/ALPHA
                             LN(P)=A +3#T +C#T##2 +5#T##3 +E#T##4
   LINE
           3
                  L'4(P)
                                           +F*T**5 +G*T**6 +H*T**7
 0.0
         .545.3
                  2.3
                           A=-0.2179135310-02 F= 0.8353935550-04
 0.0200
                -3.1273
         430.3
                           ?=-0.144353713D-U1
                                                F=-0.3470444067-05
 0.0300
         440.0
                -0.2140
                           C=-0.6149450830-02 G= 0.6121714670-07
 0.0460
         355.0
                -0.3475
                           D=-0.5725495640-03 H=-0.394828913D-09
 0.0501
         325.7
                -0.5170
 0.0600
         270.0
                -0.7024
                                  TIAE
                                          P
                                                 LN(P)
 0.0300
         192.0
                -1.0+33
                                0.2000
                                         55.0 -2.1264
 0.1000
         145.0
                -1.3241
                                0.2200
                                          55.0
                                               -2.2935
 0.1200
         105.0
                -1.5463
                                0.2400
                                         47.0
                                                -2.4506
 0.1600
          35.7
                -1.3531
                                0.2500
                                          45.C
                                                -2.4941
DATA FROM REAL STATES 325
                                        T=(T14=#FRFF##2)/ALPHA
                             Ln(f)=4 +3#T +C#T##2 +0#T##3 45#T###
   TITE
                  L:(9)
                                           +F*T**5 +6*T**6
 7.7
         534.0
                 2.0
                           A=-0.1253u57330-31 E=-0.6255556170-02
                           9=-0.6491130340 00 F= 0.7599825570-03
0.0024
                -0.2636
         443.7
         301.7
 0.0042
                -0.3944
                           C= 0.7426270700-01
                                                G=-0.3149740530-04
0.0061
         334.5
                -9.5434
                           D= 0.1402273730-01
 0.0036
         333.3
                -7.4971
 4.0111
         242.1
                -3,4354
                                  1! :=
                                          :
                                                 F · (5)
0.0100
         173.0
                -1.1373
                                0.0300
                                        102.0
                                               -1.7395
0.3231
         147.0
                -1.3622
                                0.0455
                                         92.6
                                                -1.3419
 1,1315
                -1.51:3
         124.2
                                0.0530
                                          32.5
                                                -1.9557
```





```
BATCH # 961 / 65.9% AP, 19.1% P3AA, 15.0% FINE AL
 DATA FROM RUN # 326
                                           T=(TIME#9REF##2)/ALPHA
                               LN(P)=4 +3*T. +C+T**2 +0*T**3 +E*T**4
    TIME
             P
                    LV(P)
                                             +F*T**5 +G*T**6 +4*T**7
  0.0
           653.0
                   0.0
                             A= 0.9336700350-02
                                                 E= 0.336923884D 00
  0.0033
           395.0
                  -0.5027
                             £=-0.1252175219 01
                                                 ==-0.7273600640-01
  0.0088
                             C= 0.1059060219 01 G= 0.7864488870-02
           240.0
                  -1.0009
  0.0133
           160.0
                  -1.4064
                             D=-0.824498353D 00
                                                 H=-0.334949252D-03
  0.0188
           110.0
                  -1.7011
  0.0233
            75.0
                  -2.1541
                                    TIME
                                             Р
                                                    L4(0)
  0.0283
            55.0
                  -2.4742
                                  0.0009
                                          573.2
                                                  -0.1304 .
  0.0336
            35.0
                  -2.9262
                                  0.0022
                                          474.5
                                                  -0.3193
  0.0389
            25.7
                  -3.2235
                                 .0.0059
                                          333.8
                                                  -0.6712
  0.0438
            20.0
                  -3.4853
                                  0.0091
                                          268.5
                                                  -0.9889
 DATA FROIT PUN & 327
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +3*T +C*T**2 +D*T**3 +5*T**4
    TIME
            D
                    LY(P)
                                            +F*T**5 +G*T**6 +H*T**7
  0.0
          630.0
                   0.0
                            A=-0.313324022D-02
                                                E= 0.1092839560 00
  0.0013
          530.0
                  -0.2122
                            8=-0.1055223019 01
                                                 F=-0.2233676159-01
  0.9653
          307.0
                            C= 0.4727243029 00 G= 0.239231103D-02
                  -0.7952
  0.5115
          200.0
                 -1.2233
                            P=-0.2376005099 00
                                                 H=-0.9745255470-04
  0.0163
          137.0
                 -1.6021
  0.0213
           95.0
                 -1.9582
                                  . TIME
                                            ρ
                                                   LN(P)
  0.0263
           63.0
                 -2.3026
                                 0.0463
                                           30.0
                                                 -3.1209
  0.0313
           53.7
                 -2.5513
                                 0.0513
                                           27.0
                                                 -3.2263
  0.0353
           34.0
                 -2.9957
                                 0.0021
                                          499.1
                                                 -9.3092
 0.0413
          .32.0
                 -3.0564
                                 0.0052
                                          353.9
                                                 -0.6115
DATA FROM RUN # 323
                                          T=(TIME#RREF##2)/ALPHA
                              LN(P)=4 +3*F +C*T**2 +3*T**3 +E*T**4
   TIME
            Đ
                   LV(P)
                                            +F+T**5 +G*T**6 +H*T**7
 0.3
          743.3
                 . 0.0
                            £=-0.1234107150-01
                                                E= 0.2672478360-02
 0.0027
          540.0
                 -3.3191
                           H=-0.7504425330 00
                                                 F=-0.1445998690-03
 0.0077
          355.7
                 -0.7385
                           C= 0.1532448650 00 G= 0.3859437970-05
 0.0127
          25).3
                           P=-0.2652970100-01 H=-0.3958947630-07
                 -1.0500
 0.0227
          153.0
                 -1.5303
 0.0327
          100.0
                 -2.0055
                                   TIME
                                           Ρ
                                                  LN(P)
 0.0427
          70.0
                 -2.3622
                                 0.0827
                                          35.5
                                                 -3.0412
 0.0524
           55.0
                 -2.3034
                                 0.0927
                                          34.0
                                                 -3.0343
 0.0527
          43.0
                 -2.3495
                                 0.1027
                                          32.0
                                                 -3.1450
 0.0727
          37.)
                 -2.9993
                                 9.1127
                                          30.0
                                                 -3.2095
DATA FROM PUN & 200
                                         T=(TIMF#RCEF##Z)/ALPHA
```

L':(P)=1 +0*T +0*T**2 +0*T**3 +6*T**4 TIME L ((2) +F*T**5 +3*T**5 +4*T**7 ე. ე 740.0 5. 3 0.0017 56).) -0.2787 8=-7.11-1117-43 01 F= 0.9581482900-02 0.003) 46 1. 3 C= 0.43/5507200 00 G=+0.1753258959-02 -9.4462 0.003, 430.0 -9.5427 D=-0.1090107427 00 H= 0.1054099130-03 0.0049 372.1 -9.5578 0.0054 355.0 -1.7345 TIE េ 1. \( (? ) 0.7067 515.7 -1.354] 0.0254 75.0 -2.2392 0.0104 223.0 -1.1935 0.0304 54.9 -2.5177 0.0154 155.) -1.5622 3.0354 > 7.7 -2.9431 0.0204 103.3 -1.3527 î.)434 32.0 -3.1409



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65.9% AP, 19.1? PBAA, 15.0% FINE AL
BATCH # 961 /
                                         T=(TIME*RKEF**2)/ALPHA
DATA FROM RUN # 331
                              LN(P)=4 +6*T +C*T**2 +9*T**3 +E*T**4
   TIME
           Ö
                                            +F*T**5 +G*T**0
                   FA(5)
                           A = 0.1331700520-01
         350.0
                  0.0
                                                E = 0.3404645850-01
 0.0
                           B=-0.1164978130 01
                                                 F=-0.457' 53202D-02
                 -0.0425
 0.000+
         345.0
                           C= 0.4097011340 00
 0.0023
         255.0
                 -0.3448
                                                G = 0.266495711D - 03
 0.0054
         170.0
                 -0.7503
                           D=-0.1477042840 00
                 -0.9308
 0.0079
         135.0
                                            ρ
                                   TIME
                                                   EN(P) .
 0.0104
         105.0
                 -1.2321
 0.0154
          73.0
                 -1.5955
                                 0.0304
                                          23.0
                                                 -2.7506
                                                 -3.0529
 0.0204
          47.0
                 -2.0360
                                .0.0354
                                          17.0
                                 0.0404
                                           15.0
                                                -3.1781
 0.0254
          35.0
                 -2.3308
DATA FRO 1 RUN # 233
                                         T=(TIME*RREF**2)/ALPHA
                              LIGIO)=A +BAT +CATAA2 +PATAA3 +EATAA4
                                            +F*T**5 +G*T**5
           Ρ
   TIME
                   F.1(5)
                           A = -0.9402244149 - 03
                                                E=-0.859548435D-01
 0.0
         305.0
                  0.0
 0.0029
         230.0
                 -0.2822
                           8=-0.5397698180 00
                                                F= 0.116467169D-01
                            C=-0.2637437050 00
                                                G=-0.5562949900-03
         175.0
 0.0053
                 -3.5555
                           0= 0.2673861190 00
 0.0079
         142.0
                 -0.7545
 0.0129
         105.0
                 -1.0664
 0.0179
          75.0
                 -1.4023
                                 - T1ME
                                                   LN(P)
                                                -2.3191
          60.0
                                 0.0329
                                           30.0
 0.0229
                 -1.5260
          47.0
                                                -2.4245
                                 0.0379
                                           27.0
 0.0279
                 -1.3702
 0.9304
           37.0
                 -2.1094
                                 0.0429
                                           25.0
                                                -2.5014
DATA FRUT PUT # 334 -
                                         T=(TIME#RREF##2)/ALPHA
                              LN(P)=A +8*T +C*T**2 +D*T**3 +E*T**4
                  [N(P)
                                            +F*T**5 +G*T**6
   TIME
           ø
                           A=-0.3236910530-02
                                                E = -9.2598481910 - 02
                  0.0
 0.0
         421.7
 0.0023
                           5 = -0.4395727370 00 F = 0.1991150700 - 03
         345.11
                -0.1991
                            C = -0.1062377920 - 01 G = -0.5791492910 - 05
 0.0073
         252.0
                 -0.5132
                            D = 0.1532401697-01
 0.0128
         135.0
                 -0.3223
         142.0
                 -1.0363
 0.0178
         115.0
                                   TIME
                                                   L'I(P)
 0.9228
                 -1.2977
                                           55.0 -2.0353
 0.3273
          95.0
                 -1.4899
                                 0.0523
          27.0
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                                           52.0
                                                -2.0914
 0.0323
                 -1.5505
                                           50.0
                                                -2.1306
 0.0425
          55.0
                 -1.3682
                                 0.0728
DATA FROM RUY # 335
                                         T=(TIMF#RRAFF##Z)/SLPHA
                              Lis(2)=1 +3*T +C*T**2 +5*1**3 +F*T**4
                                            +F=T##5 +G#T##6 +44*T##7
   TIVE
                  _{ \{₽}}
                           A=-0.2354007100-02 E= 0.9417632090-02
 2.0
         505.5
                  J. ?
                           R=-0.7993539460 00 F=-0.7581131520-03
 0.3327
         45) 0
                 -0.2540
                           C= 0.0476321440 00 G= 0.3070180230-04
          3 15.7
 2.0077
                 - 7. 3544
                                                 H=-0.4898583230-05
 0.0127
         225.0
                 -0.9591
                            D=-0.0323375930-01
 0.0177
          1-5.0
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                                                   L4(2)
 0.0227
                 -1.3514
                                           60.0
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 0.3277
         122.)
                 -1.531?
                                 0.0527
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0.9327

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50.0

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-2.4932

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SATCH # 961 / 65.9% AD, 10.17 PBAA, 15.03 FINE A!
                  DATA FROM RIM # 336
                                                                                             T=(TIME#RFEF##2)/ALPHA
                                                                        LN(P)=A +B*T +C*T**2 +C*T**3 +E*T**4
                        TIME
                                       ?
                                                    LV(P)
                                                                                                 +F*T**5 +G*T**6 +H*T**7
                    0.0
                                   633.0
                                                                    2.0
                    0.0042
                                   350.0
                                                 -0.5925
                                                                   3=-0.9714449360 00 F=-0.2388189340-01
                    0.0092
                                   215.0
                                                                   C= 0.3228511740 00 S= 0.3029510080-02
                                                -1.0793
                    0.0142
                                   137.0
                                                -1.5305
                                                                   D=-0.209013269D 00 H=-0.147857679D-03
                    0.0191
                                    90.0
                                                -1.9507
                   0.0242
                                   60.0
                                                -2.3561
                                                                                 TIME
                                                                                                            LN(P)
                   0.0292
                                    40.0
                                                -2.7616
                                                                             0.0003
                                                                                           574.8 -0.0965
                   0.0342
                                    37.0
                                                -3.0493
                                                                             0.0033 414.7
                                                                                                          -0.4229
                   0.0392
                                    27.0
                                               -3.1545
                                                                             0.0045
                                                                                           369.9 -0.5619
                   0.041
                                    25.0 -3.2316
                                                                             0.0053
                                                                                            320.1 - - 0.6917
                 DATA FROM PUN & 337
                                                                                            T=(TIME#PFEF##2)/ALPHA
                                                                     LN(2)=A +8*T +C*T**2 +0*T**3 +E*T**4
                       TIME
                                    Þ
                                                   L\(2)
                                                                                                +F*T**5 +G*T**5 +H*T**7
                   0.0
                                  720.0
                                                                 A= 0.3798355030-02 E=-J.5837274980-01
                                                  0.7
                   0.0024
                                  443.0
                                               -0.3992
                                                                  P=-0.9492240050.00 F= 0.993055977D-02
                   0.0074
                                  2:7.3
                                               -0.3920
                                                                  C=- ).3506143430-01 G=-0.7767255170=03
                  0.0124
                                 170.7
                                                                  D= 0.1433823030 00 H= 0.2248727940-04
                                               -1.4435
                  0.0174
                                 117.7
                                               -1.5171
                  0.0224
                                  83.0
                                              -2.1504
                                                                                TIME
                                                                                                P
                                                                                                           FA(b)
                  0.0274
                                  60.0
                                               -2.4849
                                                                            0.0007
                                                                                          651.8 -0.0843
                  0.0324
                                  43.1
                                               -2.3181
                                                                            0.0013
                                                                                          596.4
                                                                                                        -0.1354
                  0.0374
                                  33.0
                                               -3.0827
                                                                            0.0020
                                                                                           523.6
                                                                                                        -0.3135
                  0.0424
                                   27.0
                                               -3.2834
                                                                            0.0051
                                                                                           363.6
                                                                                                         -0.6831
                DATA FROM PUN 9 333
                                                                                           T=(TIME#RPEF##2)/ALPHA
                                                                      LN(P)=A +F#T +C#T##2 +D#T##3 +F#T##4
                      TIVE
                                   ٥
                                                 F.1(0)
                                                                                               +F#T##5 +G#T##6 +H#T##7
                  0.0
                                 50).0
                                                                ).)
                  0.0005
                                 530.0
                                              -0.0339
                                                                 F=-0.3165219479 00 F=-0.3053605519-03
                                 347.3
                  0.7053
                                                                 C= 0.17272;:330 00 G= 0.9458453540-05
                                              -0.3333
                  0.0104
                                 22:. 3
                                                                 9=-0.3343204060-01 H=-0.0167277160-07
                                              -0.9376
                 0.0156
                                 155.0
                                              -1.2910
                 0.0205
                               130.3
                                              -1.5294
                                                                               TIME
                                                                                             Ð
                                                                                                            LM(P)
                 0.925~
                               107.0
                                              -1.7241
                                                                           0.0596
                                                                                            55.0 -2.3196
                 0.0303
                                 35.0
                                              -1.0543
                                                                           0.0706
                                                                                            52.0
                                                                                                      -2.4457
                 9. 3404
                                  57.5
                                              -2.1322
                                                                           0.0205
                                                                                            45.0
                                                                                                      -2.5903
                 3. 15.99
                                  67.3
                                              -2.3626
                                                                           0.1000
                                                                                            42.0 -2.5593
              DATA FOR A
                                        4 333
                                                                                          T=(T1: E#POFF##2)/CLOHA
                                                                     Ly(2)=A +5%I +6%1*02 +5%T%03 +5%T%44
                     11.4%
                                   >
                                                 L.(?)
                                                                                              #F#T##5 +S#T##5 +P#T##7
                                750. )
                                               3
                                                                445.)
                                             -- -- 4443
                                                                - *=-).17/050150°7 71 8=-0.113920453D 06
                                255.1
                                             -1.071%
```

0.0 0.0022 9.1972 0.013-153.0 -1.5:20 3.317, 30.) -2.01:2 0.022: 42.5 -2.4743 3.327 41. -2.0045 3.3323 25.3 -5.5512 3.0007 472.5 -:.1 ... 3, 1325

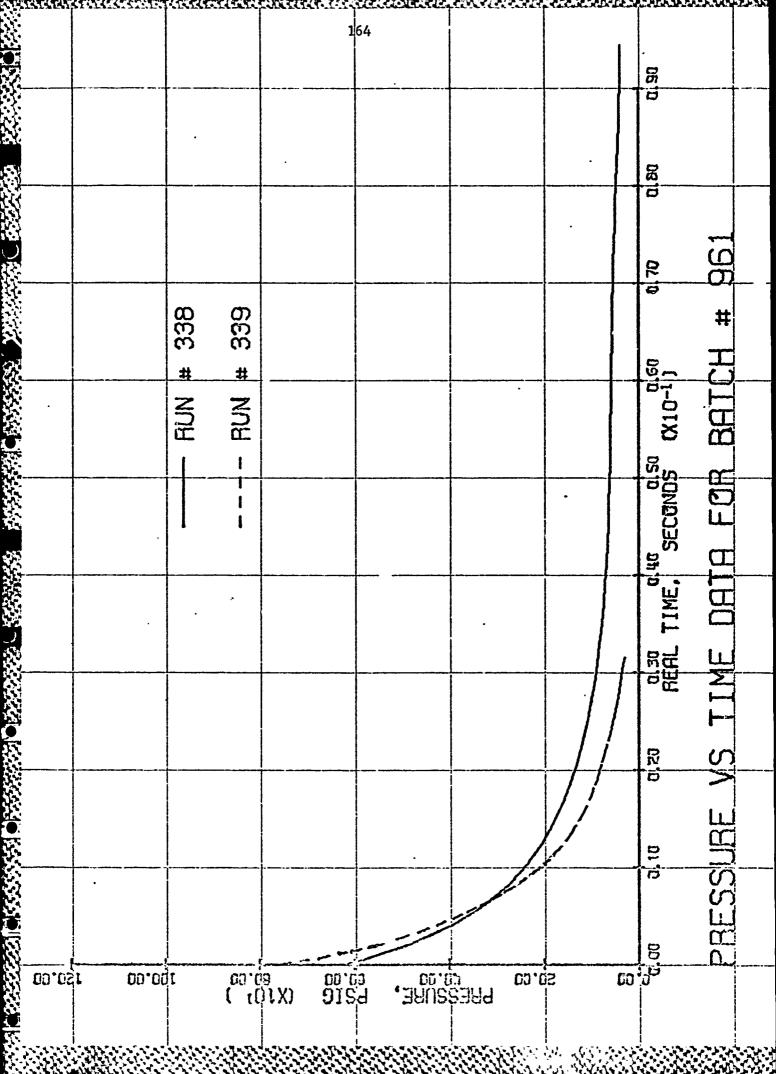
-C. 2340

553.4

0--1.7973637937 00 H=-0.9136083637-03 11:3 .5 L4(0) 0.0032 473.3 -0.4603

3.9,45 407.5 -0.5074 0.057 347.5 -7.7-35 0.0075 234.0 -0.9712

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165
 BATCH / 961 / 65.93 AP, 19.15 PEAA, 15.00 FlorE AL
 DATA FROM RUN # 340
                                      T=(TIME#RREF##2)//LPHA
                           LN(P)=A +3*T.+C*T**2 +D*T**3 +E*T**4
   TIME
           þ
                 LV(P)
                                        +F*T**5 +G*T**6 +H*T**7
 0.0
         945.7
                 0.0
                         0.0030
        665.0
               -0.3514
                         R=-0.8172935730 00 F=-0.5837114030-03
                -0.9302
  0.0080
         412.0
                         C= 0.1672947030 00 G= 0.2430360370-04
 0.0130
                -1.1813
         230.0
                         D=-0.4052415140-01 H=-0.3822163060-06
 0.0130
         203.0
                -1.5136
 0.0230
         155.0
                -1.3078
                                TIME
                                       Ρ
                                               LN(P)
  0.0200
         114.7
                -2.0305
                              0.0580
                                       65.0 -2.6748
 0.0330
         93.0
                -2.2552
                              0.0780
                                      55.0
                                            -2.3439
 0.0330
          35.0
               -2.4095
                              0.1080
                                      50.0
                                            -2.9392
                                      45.0 -3.0445
 3.0483
          72.0
                -2.5745
                              0.1430
 DATA FROM 230 # 341
                                      T=(TIME*PREF**2)/ALPHA
                           LN(P)=A +8#T +6#1 #2 +0#1##3 +F#T##4
   T 1 -15
                 LN(2)
                                        +F*T**5 +G*T**6 +H*T**7
 0.0
         757.3
                 0.0
                         0.0020
        560.0
                -0.3014
                         8=-0.9907033990 00 F= 0.3654782730-01
  0.2070
         315.0
                -0.8768
                         C = 0.1037917507 \ 00 \ G = -0.4961377670 - 02
  0.0120
         193.0
                -1.3667
                         0 = 0.1399924669 \ CO \ H = 0.2485157339-03
 0.0173
         125.0
                -1.3010
  0.0220
                -2.2473
                                TIME
          30.0
                                       Ρ
                                               LN(P)
 0.0270
          60.0
                -2.5350
                              0.0423
                                       25.0
                                            -3.4105
  0.0320
          47.0
                -2.7792
                              0.0007 684.2
                                            -0.1011
                                      623.1
 0.0370
          35.0
                -3.0740
                              0.0013
                                            -0.1947
         * 33.3
  0.0390
                -3.2282
                              0.0032
                                      487.7
                                            -0.4397
-DATA F-DH 3JM # 342
                                      T=(TINE#PREF##2)/ALPHA
                           Liv(b)=4 +6*1 +C*1**2 +C*1**3 +E*1**4
                 L4(P)
                                        +5*T##5 +G#T##5 +H#T##7
   TIME
  9.0
         343.3
                 0.2
                         0.0024
                -7.4212
                         \phi = -0.1522377430 01 F = -0.2104725329 00
        423.0
 0.0074
        220.0
                -1.0234
                         C = 0.1806873107 01 G = 0.2522139510-01
 0.0124
         14).7
                -1.5193
                          0=-3.1755553337 01 H=-0.1155934050-02
 0.0177
          33.9
                -1.0299
 0.0324
          3). 1
                -2.3671
                                TIME
                                       ;>
                                               L'(P)
 3.3274
          51.)
                -7.5275
                              U.0000 552.7 -0.1464
  0.0324
          23.3
                -3.2260
                              0.0015 501.3
                                            -0.2432
 0.037+
          21.0
                -3.4149
                              0.0021
                                      450.9
                                            -0.3502
  0.0024
          73.1
                -3.4557
                               5.0034
                                     355.5
                                            -0.5070
 DATA FALL ST. . 345
                                      I=(TI F#RHEH##2)/ALPHA
                           L.(+)=A + PAT +C*T**2 + P*T**3 +5*T**4
   1132
                 L': ( · ` )
                                        +F#T##5 +S#T##4 +H#T##7
  ).)
        1003.0
                 ٠.)
                         A= 0.2031939470-02 F=-0.1275909820 00
                -7.34 28
                         9=-0.4549359760 00 F= 0.3341961340-01
  0.0022
         75).
 0.0377
         435,3
                -7. 2.50
                         C=-0.4322393650-02
         2 4 7 . 1
 0.0123
                -1,45,35
                         P= 0.2351159500 00 H= 0.2131973250-03
 0.3172
         1 7.;
                -1.1741
                -1,2209
  0.3232
         113.3
                                71 E
                                              14(0)
```

3.3000

3.3014

1.7327

0.00-7 /18.4

951.1

359.1

775.2

-0.1001

-3.2120

-0.3824

-0.5410

3.1372

3,0322

3.3377

0.0-23

33.3

7.- . .

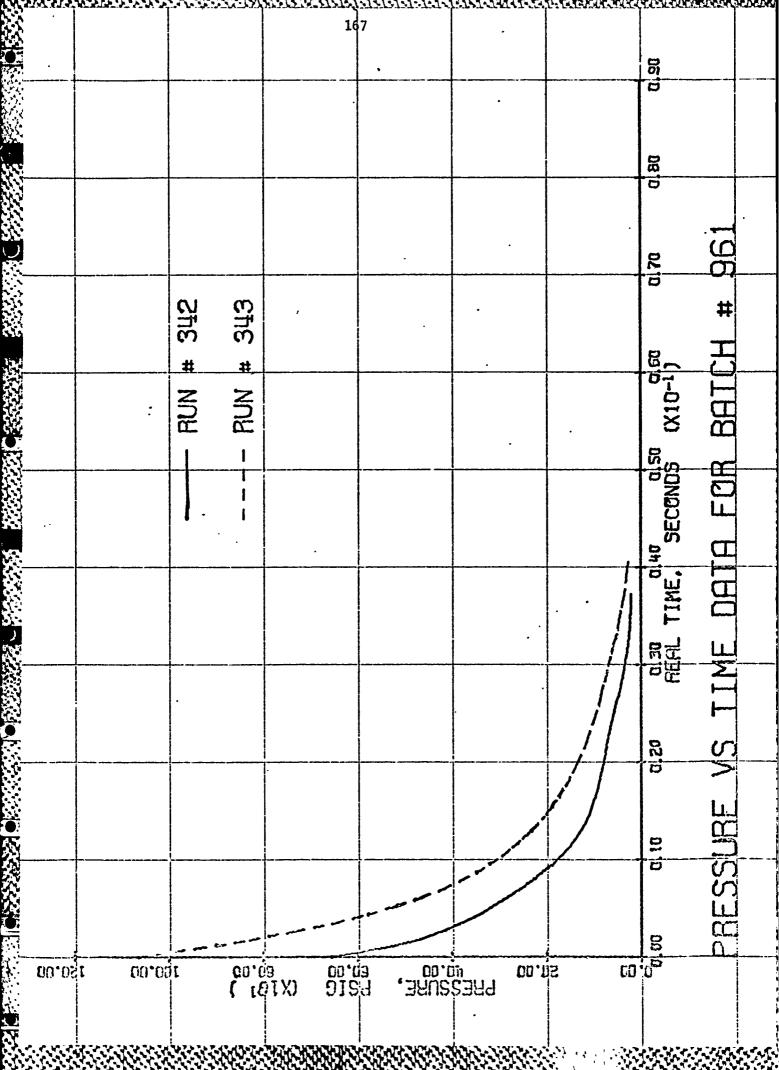
-2.5332

-2, .425

-1.4425

-3.75 3

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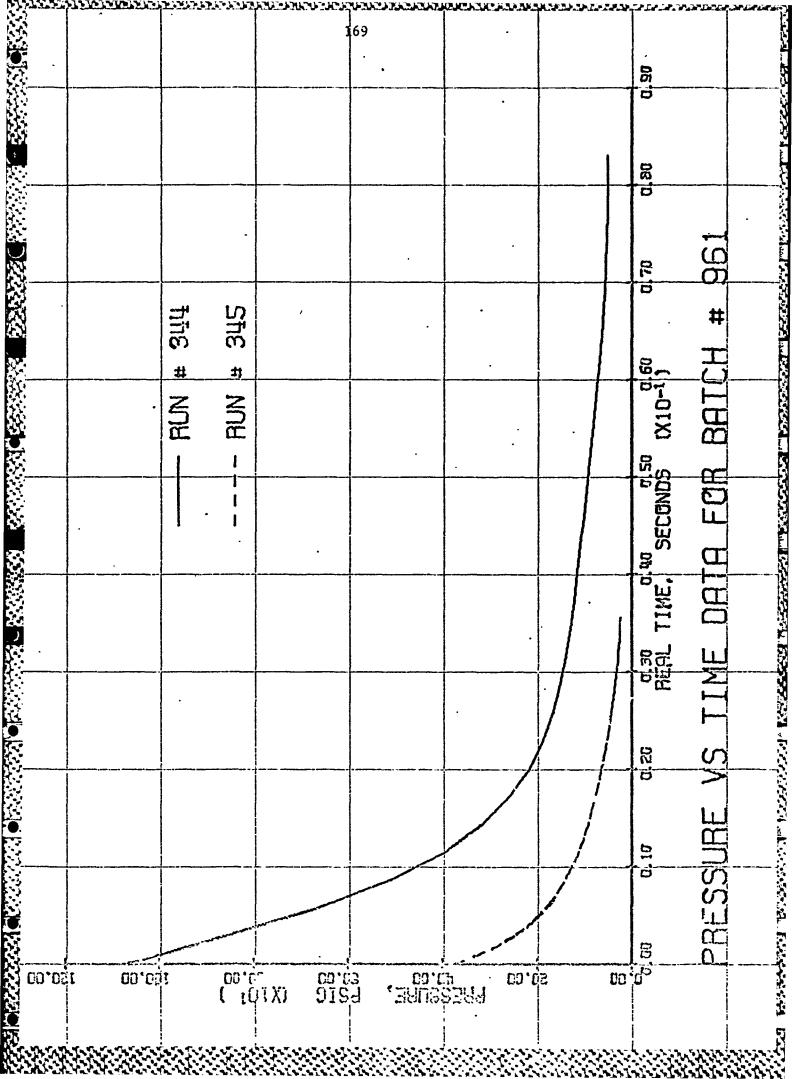
BATCH #	961 /	55.9% Ap,	19.1% P3A%	15.07	FINE AL	
DATA FRO	JA SIJA H	344		T=ITI	MESSOFFE	#2)/ALPHA
		•	14(2)=4	Sat +Ca	Tem 2 + 24	T**3 +F*T**4
TIME	P	LV(2)		45%	T##8 +0+	T**6 +H*T**7
0.9	1049.0	0.0	A= 0.155540	12941-01	F0 1	426104690-01
0.0015	992.0	-0.0549	P=-0.435426	.£370 01	EU-1	4261046911-01 134865140-02
0.0052	655.0	-0.4549	C=-0.189677	75520 00		
0.0102	432.7	-0.3862	D= 0.867265			361605030-04
0.0152	303.0	-1.2409	0-0-0-0-1200	1902 1-171	n= U.5	469016350-05
0.0202	220.0	-1.5510	TIVE	ρ	1 11 10	•
0.0252	170.0	-1.3103	0.0602		_ ,,,	-
0.7302	132.0	-2.0713	- 0.0802			
0.0452	103.0	-2.2725	0.1102			-
0.0502	90.0	-2.4548	0.1402			
	,,,,,,	ベ・インサウ	0.1402	40.0	-3.265	3
		,		•		
0414 FR3	1 = 14 4	345	•	T-171	1543555	#2)/ALPH4
			18(2)=5 +	1 1 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ካርተዳኖደታት የታቀን ነጋቀን	*21/ALPH4 [**3 +E*T**4
TIME	p	LN(P)	4 ( ) - 4 (	271 TUM.	ነጥጥሬ ተጋጭ የቊውድ ነር።	የምምኃ ተፎሞ <u>የ</u> ሞሞፋ
0.0	372.0	· · · · · ·	A=-0.312-42	**************************************	T**5 +G*	755   757   757   757   757   757   757   757   757   757   757   757   757   757   757   757   757   757   757
0.0010	315.0		P==0.10007	2122-02	E= 0.4.	207457270-01
0.0020	275.0		C = 0.424995	073J JI		211235990-02
0.0049	195.0		D=-0.165394		9= 0.4(	030839120-03
0.0070	1:0.0	-0.3437	D01123234	3910,00		
	107.0	-1.2461	TIME			
- •		-1.5014			LN(P)	
0.0220		-1.9299	0.0270	37.0		
0.0250	· 45.7	-2.1122	0.0320	27.0	-2.5231	-
0.02.00	470)	- 6.1122	0.0370	22.0	-2.3279	)

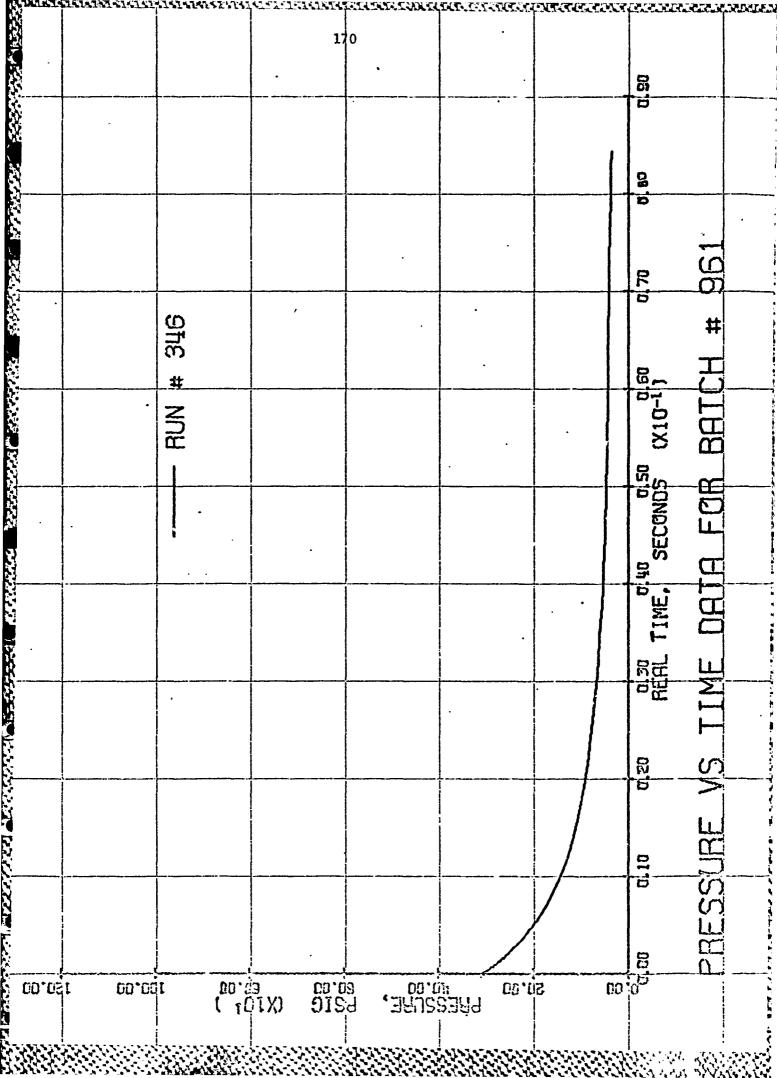
. DATA FROM PUN : 345

			1 5/ 2 3 4 4 5 4 5 4	AT		
-	* 1. = -		しがくとしゃか チン	*! +^*!	**2 +0+T**	3 +E*T**4
ł	I Au B	LN(P)		+F#]	**5 +5***	4 4H±T==7
0.0	305.0	· 0.)	A=-0.5395138	32 2- 22	F=-0.37214	
0.0	029 230.0	-0.2322	2=-0.63430379			
0.0					F≈ 0.61503	
		-0.4422	C= 0.38950483	310-01	6=-0.41725	129730-04
ű.j.	179 [6].9	-7.5451	0= 0.25879721	113-02	H= 0.10313	
9.00	129 123.0	-0.9031		,	·- 0010510	741777-05
0.01	179 95.0	-1.1564	EMIT	P		
0.00	223 27.2		· · · <del>-</del>		L\(P)	
		-1.3393	<b>0.</b> 0579	43.0	-1.9591	
0.7	777 70.0	-1.4713	0.0579	41.6	-2.0057	
0.0	374 55.0	· · · ·				
		-1.7130	0.0779	37.3	-2.1394	
J • 7€	47. 45.3	-1.5917	0.0373	35.0	-2.1.50	•

NOT REPRODUCIBLE

T=(TIME#PREF##2)/ALPHA





## C. Table of Initial Pressure, Initial Depressurization Rate, and Whether or Not the Experimental Run Extinguished

## BATCH #944

Run	, p _Q	(dp/dt)	Extin-	Run	P _O	(dp/dt)	Extin-
No.	(psia)	(psia/sec)	guished	No.	(psia)	(psia/sec)	
	****	100 000			• • •	-4	
119	1110	180,000	No	133	430	76,000	No
120	1105	232,000	No	134	665	121,500	Yes
121	1105	301,000	Yes	135	395	62,500	No
122	820	253,000	Yes	136	340	59,000	Yes
123	990	276,000	Yes	137	950	176,000	No
124	920	276,000	Yes	138	1105	277,000	Yes
125	895	210,000	Yes	139	835	152,000	No
126	930	248,000	Yes	140	660	127,000	No
127	900	196,000	Yes	141	665	115,500	Yes
128	940	155,000	No	142	520	93,500	No
129	895	233,000	No	143	405	67,500	Yes
130	950	230,000	Yes	145	855	175,000	No
131	565	103,500	No	146	610	115,000	No
132	450	94,500	Yes	147	875	171,000	Yes
BATCH #	941						
87	650	70,000	Yes	104	560	77,000	No
88	535	62,500	No	105	710	132,000	Yes
89	715	121,000	Yes	106	735	120,000	No
90	430	67,000	Yes	107	765	113,500	No
91	690	140,000	Yes	108	865	186,000	Yes
92	430	71,500	Yes	109	905	147,500	No
93	475 -	130,500	Yes	110	1070	187,000	No
94	515	70,000	No	111	1085	190,000	Yes
97	435	57,500	No	112	1080	210,000	Yes
98	935	130,500	No	113	815	174,000	Yes
99	560	60,000	No	114	885	144,000	No
100	465	59,000	No	115	510	74,000	No
101	470	74,500	Yes	116	1155	178,000	ЙO
102	490	87,500	Yes	117	810	109,500	
103	460	59,000	No	117	570	•	No No
	100	27,000	110	110	210	74,000	No

Run	Po	(dp/dt)	Extin-	Run	D.	(dp/dt)	Extin-
No.	(psia)	(psia/sec)	guished	No.	P _o (psia)	(psia/sec)	
			•		•••		<b>O</b>
148	875	135,500	Yes	167	715	82,000	No
149	775	95,500	No	168	665	80,000	No
150	755	82,000	"es	169	555	54,500	No
151	690	71,000	No	170	560	56,000	No
153	1100	152,000	Yes	171	620	64,500	No
154 155	880	108,500	Yes	172	720	72,500	No
155 156	670	65,000	No	173	195	7,500	No .
156 157	755	76,000	No	174	355	32,250	No
157	630 550	82,000	Yes	175	225	24,600	No
159	550 500	72,000	Yes	176	300	20,800	No
160	455	45,500	No	177	400	51,175	Yes
163	550	30,500	No	178 .	655	96,500	Yes
165	520	70,000	Yes	179	790	77,500	No
166	520 520	72,000	Yes	180	770	85,500	No
100	220	56,000	No	181	. 680	64,500	No
ВАТСН	4040						
DATON	17 J4 J						
18 <b>2</b>	660	79,000	Voo	107	505	75 500	
183	785	62,500	Yes	197	505	75,500	Yes
184	670	52,500	No No	199	640	73,000	Yes
185	695	46,000	No · No	200	620	64,500	No
186	740	52,000		201	495	67,750	Yes
187	690	96,000	No Yes	202 203	560	58,000	Yes
188	-630	64,000	No	204	335 335	27,000	No
189	680	95,500	Yes	205	335 380	39,500	Yes
190	<b>515</b>	38,000	No	206	375	47,500	Yes
191	340	22,125	No	207	91.·	28,300	No
192	. 320	25,830	No	208	885	102,000	Yes
193	320	36,750	Yes	209	685	96,000 74,000	Yes
196	425	27,375	No	407	005	. 74,000	No
		,,,,,,,					
BATCH	<u>#951</u>				•		
212	750	74,000	No	222	715 .	184,000	Yes
213	630	86,500	No	224	615	105,500	Yes
214	700	100,000	No	225	930	104,500	No
215	575	109,000	Yes	227	490	71,500	No
216	480	69,000	No	228	515	117,700	Yes
218	570	83,500	Yes	230	515	90,500	No
219	1060	159,000	No	231	765	186,800	Yes
219A	950	150,700	No	232	955	168,800	No
220	915	179,500	No	233	720	127,000	No
221	920	215,500	Yes	234	345	54,750	Yes
		-	-	- ·		- 1,750	100

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BAT	CH	#	35	5
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Run No.	p _o (psia)	(dp/dt) _o (psia/sec)	Extin- guished	Run · No.	p _O (psia)	(dp/dt) _o (psia/sec)	Extin- guished
<b>23</b> 5	755	128,200	Yes	249	660	51,750	Yes
236	845	87,500	Yes	250	730	64,500	Yes
237	930	84,000	Yes	251	535	40,500	Yes
238	1020	91,000	No	252	400	26,800	Yes
239	930	71,600	. Yes	253	300	18,000	No
240	1025 .	105,200	Yes	255	295	17,900	Yes
241	435	32,000	Yes	<b>2</b> 57	315	15,300	Yes
242	595	39,000	No	258	990	59,400	Yes
243	440	25,800	No	259	910	39,750	Yes
<b>24</b> 5	520	36,000	No	260	1055	37,170	No
246	830	82,500	Yes	261	510	17,100	No
247	965	76,500	No	263	470	16,100	No
<b>24</b> 8	760	48,500	No			·	i
ВАТСН	<i>1</i> <b>#</b> 966			•			,
					• •		
367	545	88,000	Yes	379	685	131,000	Yes
368	535	63,500	No	382	1075	197,300	Yes
369	395	43,200	No	383	825	117,000	No
370	435	66,500	Yes	384	865	138,500	Yes
372	680	91,500	No	385	1025	119,500	No
373	645	92,000	Yes	386	1050	124,500	No
375	630	87,500	No	387	500	71,000	Yes
376	650	81,500	No	388	400	54,000	Yes
BATCH	#970					`. <del>-</del>	
399	880	:37,000	No	411	575	92,500	No
400	845	120,500	No	412	600	95,200	Yes
402	835	121,500	No	413	590	89,000	No
403	440	80,500	Yes	414	690	145,800	Yes
404	445		Yes			·	
		64,500	162	. 416	985	175.000	Yes
405		64,500 65,000		· 416 417	985 955	175,000 159.000	Yes Yes
405 406	430	65,000	Yes	417	955	159,000	Yes
405 406 407		65,000 61,750	Yes No	417 418	955 985	159,000 233,000	Yes Yes
406	430 560	65,000 61,750 52,000	Yes No No	417 418 419	955 985 725	159,000 233,000 108,500	Yes Yes Yes
406 407	430 560 460	65,000 61,750	Yes No	417 418	955 985	159,000 233,000	Yes Yes
406 407 408 409	430 560 460 450	65,000 61,750 52,000 45,000	Yes No No No	417 418 419 421	955 985 725 725	159,000 233,000 108,500 106,500	Yes Yes Yes No
406 407 408 409	430 560 460 450 460	65,000 61,750 52,000 45,000 64,000	Yes No No No Yes	417 418 419 421 423	955 985 725 725 550	159,000 233,000 108,500 106,500 78,200	Yes Yes Yes No
406 407 408 409 BATCH	430 560 460 450 460 1 #961 550	65,000 61,750 52,000 45,000 64,000	Yes No No No Yes	417 418 419 421 423	955 985 725 725 550	159,000 233,000 108,500 106,500 78,200	Yes Yes Yes No Yes
406 407 408 409 <u>BATCH</u> 322 323	430 560 460 450 460 1 #961 550 555	65,000 61,750 52,000 45,000 64,000	Yes No No No Yes Yes	417 418 419 421 423 336 337	955 985 725 725 550 655 740	159,000 233,000 108,500 106,500 78,200 103,500 116,700	Yes Yes Yes No Yes Yes
406 407 408 409 <u>EATCH</u> 322 323 324	430 560 460 450 460 1 #961 550	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break	Yes No No No Yes Yes No	417 418 419 421 423 336 337 338	955 985 725 725 550 655 740 615	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000	Yes Yes Yes No Yes Yes Yes
406 407 408 409 <u>BATCH</u> 322 323	430 560 460 450 460 1 #961 550 555 610	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break 45,200	Yes No No No Yes Yes	417 418 419 421 423 336 337	955 985 725 725 550 655 740	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200	Yes Yes Yes No Yes Yes
406 407 408 409 BATCH 322 323 324 325	430 560 460 450 460 1 #961 550 555 610 585	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break 45,200 111,500	Yes No No No Yes Yes No No	417 418 419 421 423 336 337 338 339	955 985 725 725 550 655 740 615 770	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200 123,500	Yes Yes No Yes Yes Yes No Yes
406 407 408 409 BATCH 322 323 324 325 326	430 560 460 450 460 1 #961 555 610 585 675	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break 45,200 111,500 125,000	Yes No No No Yes  Yes No No No No	417 418 419 421 423 336 337 338 339 340	955 985 725 725 550 655 740 615 770 960	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200 123,500 120,500	Yes Yes No Yes Yes No Yes No Yes No
406 407 408 409 BATCH 322 323 324 325 326 327	430 560 460 450 460 1 #961 550 555 610 585 675 690	65,000 61,750 52,000 45,000 64,000 86,000 86,000 No Break 45,200 111,500 125,000 106,000	Yes No No Yes Yes No No No Yes Yes	417 418 419 421 423 336 337 338 339 340 341	955 985 725 725 550 655 740 615 770 960 775	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200 123,500 120,500 120,500	Yes Yes No Yes Yes No Yes No Yes No Yes
406 407 408 409 BATCH 322 323 324 325 326 327 328	430 560 460 450 460 550 555 610 585 675 690 765	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break 45,200 111,500 125,000 106,000 114,700	Yes No No Yes Yes No No Yes Yes Yes Yes	417 418 419 421 423 336 337 338 339 340 341 342	955 985 725 725 550 655 740 615 770 960 775 660	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200 123,500 120,500 120,500 162,800	Yes Yes No Yes Yes No Yes No Yes No Yes Yes
406 407 408 409 BATCH 322 323 324 325 326 327 328 329	430 560 460 450 460 460 555 610 585 675 690 765 760	65,000 61,750 52,000 45,000 64,000 86,000 86,000 No Break 45,200 111,500 125,000 106,000	Yes No No No Yes No No No Yes Yes No Yes	417 418 419 421 423 336 337 338 339 340 341 342 343	955 985 725 725 550 655 740 615 770 960 775 660 1085	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200 123,500 120,500 120,500 120,500 129,500	Yes Yes No Yes Yes No Yes No Yes No Yes Yes Yes Yes
406 407 408 409 BATCH 322 323 324 325 326 327 328 329 331	430 560 460 450 460 1 #961 550 555 610 585 675 690 765 760 380	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break 45,200 111,500 125,000 106,000 114,700 59,000	Yes No No No Yes Yes No No No Yes Yes No Yes Yes Yes Yes	417 418 419 421 423 336 337 338 339 340 341 342 343 344	955 985 725 725 550 655 740 615 770 960 775 660 1085 1065	159,000 233,000 108,500 106,500 78,200 103,500 116,700 72,000 125,200 123,500 120,500 120,500 162,800	Yes Yes No Yes Yes No Yes No Yes No Yes No Yes No Yes No
406 407 408 409 BATCH 322 323 324 325 326 327 328 329 331 333	430 560 460 450 460 1 #961 555 610 585 675 690 765 760 380 325	65,000 61,750 52,000 45,000 64,000 86,000 69,500 No Break 45,200 111,500 125,000 106,000 114,700 59,000 29,100	Yes No No No Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes	417 418 419 421 423 336 337 338 339 340 341 342 343 344 345	955 985 725 725 550 655 740 615 770 960 775 660 1085 1065 390	159,000 233,000 108,500 106,500 78,200 116,700 72,000 125,200 123,500 120,500 120,500 162,800 129,500 54,000	Yes Yes No Yes Yes No Yes No Yes No Yes Yes Yes Yes Yes Yes

## SECTION II

PROGRAM TO CALCULATE CONSTANTS IN THE CHARACTERISTIC TIME EQUATIONS FOR THE CHEMICAL AND DIFFUSIONAL PROCESSES

## A. Description

This program, entitled ABDETRMN, solves Equations 53-57 in Section IV - C of AMS Report No. 880. The program uses the method described on pages 37 and 38 of the report to determine the proper values of the constants 'A' and 'B' in The input is comprised of the physical Equations 35 3 36. properties of the propellant in question and the table of steady state burning rate versus pressure data for that pro-Provision is made for inputing the adiabatic flame temperature as a function of pressure, although for several of the propellants considered in this report the flame temperatures were nearly constant in the regions of concern, i.e., from one to seventy atmospheres. It is important to note that these constants 'A' and 'B' do not represent the intercept and slope terms in the burning rate law

$$\frac{P}{R} = a' + b' P^{2/3}$$

i.e., they may not be determined by plotting the steady state burning rate versus pressure data on P/R versus  $P^{2/3}$  coordinates and drawing a straight line through the points. The output includes, in addition to 'A' and 'B', calculations of the surface temperature, the temperature gradient in the gaseous phase,  $P^{2/3}$ , P/R, the square roots of the characteristic times for the chemically and diffusion controlled processes, and the steady state burning rate all in non-dimensional form and all as a function of decreasing non-dimensional pressure. This data is presented to facilitate a check of the 'A' and 'B' constants with the granular diffusion flame theory. If the calculated steady state burning rate, RSS*, corresponding to P = 1.000 is not within a half of one percent of 1.000, RO* must be changed slightly until this condition is met.

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See Section II-D

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LISTING
В.
// EXEC SATEON
//SUJRCE.SYSIN DO DATA
ACPIAST.
      31MENSI NU "(30),ROIM(50),POIM(30),P(30),TERED(30),TEDIM(30)
      DIMENSION [59FD(30), THETS(30), 9(30)
C
         NAME = ADDETEMA
C
         THIS DOCK DETERMINES A & B VALUES FOR THE MODEL AND CHECKS THEM.
C
          WITH THE SON THE DOY.
C
  130 FORMAT (SF10.0)
  131 FOR AAT (11X, FRE, 14Y, FRE, 11X, FTEREDE, 10X, FTSREDE, 10X, FF##2/3*, 11X, F
     19/31)
  132 FORMAT (6F13.6)
  133 FL- 'AT (215,7F10.0)
  134 FORMATILIA, *PATCH P*, 14,5X, *HUMBER OF DATA POINTS: *, 14,3X, *RO = *, F
     17.4,34,17F0 = 1,F6.0,3X,1TS0 = 1,F6.0,
                            /,404,55.3,1 /P1,3X,55.3,1 FUEL1,3X,F5.3,1 AL1
     2,//)
                                   * * $\V$*,10x,*="\\\K*,12\,*4*,/)
  135 FORST (77,15X,
  136 FORMAT (5X,4515.5)
  137 | TRHAT (219, Fla.5, 15%, Fla.6)
      RG15 = 2.
  805 COUTTH OF
      Ferga = 100.
      LCGUiT = 0
      READ (5,133) NBATCH, M, TO, TEO, AP, FU: L, AL, TSO
      IF (NANTCH . LT. 0) 3: TO 601
      READ (5,130) PO, ESU-F, EFLANE, TINE, AGUESS
      PPEEXP = .273 \% E (P(E5) \% E / (PS/5 \% 150))
      TSO = ((S) + F/(S)S)/(VLOS(PF(FXP/P)))
      #PITE (3,134) WPSTOH, W, RO, TEM, TSO, PP, FUEL, AL
      WRITE (4,131)
      A = AUUESS
      RE49 (5,130 ) THIGH, THOO, TERMO, TERMO
      READ (5,130 ) 91000,2000,2300,8100,9000
      P1000 = P100011000.
      PANO = PHIDMINE.
      5100 = 63 (MEDI)
      0100 = P1930100.
          ROTT, PARTY OF TRAINING TO PARTY AND AND VARIABLES
       75 RH J=1, .
            (5,1°) -():(J), (/I*(J)
       I^{\pi}(x) = (y) \cdot (x) \cdot (x) \cdot (x) = x \cdot (x) \cdot (y) \times 0
       10 (1) [ (1).[]. (1) - (1) = 2 [:(1).[].
                                                  TEMP 13 FUNCTION OF PRESS.
          SEMINE STEEDS OF MINER OF FUN
              I = ! .
       1: 1: - 1.
       ₽ 11, ± 2
                       - 3-- ())/(-i^\\ - ( ))/
       11 (2 11(1) . . . .
```

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IF (PDIM(I) .31. 300.) 60 TO 602
      TEMIN = TELOO
      PMIN = P100
      DTUP = (TF300 - TF100)/(PR0) - P100)
      IF (PDIM(I) .ST. 100.) GD TO 602
      CCCRT = VIMAT
      PMI' = P000
      DTDP = (TF100 - TF000)/(P100 - P000)
  602 TEO = TENIN + (PDI (I) - PMIN) * DTOP
  799 \text{ TFOIM(I)} = \text{TFO}
C
         CALCULATION OF NON-DIMENSIONAL SUPFACE HEAT RELEASE
C
      HI = AP#750./(.331#(TS)-TivF))
      HS = (\Delta 2 + 475. + FUEL + 225. + AL + 63.)/(.333 + (TSO - TINE))
      H = HI - HS
      HAL = H
      TF0 = TF1000
                                            )/(.333*(TSO - TIME))
      HSN= (AP#495. + FUEL#225.
      HNCRAE =
                HI - HST
      6EMFET = 933./TS1
      THEO = (TFO - \Gamma IAF)/(TSO - TILE)
      0 = (TFO - TIME) / (TSO - TIME) - 4
      C = TYUCX
      361 = 0.
      PSS1 = 0.
  773 CONTINUE
C
         NON-DIRENSIONALIZE INPUT DATA
      DO 774 I=1, V
      R(I) = RDIM(I)/r0
      CSV(I)^{*}IGQ = (I)Q
      TFRED(I) = TFDI''(I)/TFD
      TSRED(I) = T./(I. - (RGAS#TSO/ESUMF)#ALCG(P(I)))
      1S = TSRED(1) \times 150
      THETS(I) = (IS - II \cdot F)/(ISO - II \cdot F)
      P23 = P(1) * *(2./3.)
      POVERR = P(I) / P(I)
      WRITE (5,132) R(1),P(1),TERED(1),TSRED(1),P23/PDVERR
  774 CONTINUE
      WPITE (5,135)
  759 CONTINUE
C
C
          FAMILUSTS.
                      FOR EACH PIESSURE
      00 779 J=1, (
      K \times K = -1
      K1 = -1
      TCHAZL = 0.
      18089 = 150 (J)8160
      THEO = (TETP - TIJE)/(TS) = TIJE
      IF (18757(U) *UT* 117.21) * # 4.87 d
          = 17 (( +111 /() 1 5 5 3 50)) (1.75 5 (3) - 1.1)
          F 5337101 54
       T(d) - 471((t))/\F100 (d)
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012 = (TFPE)(J)**(5./6.))/(P(J)**(1./3.)*TSRED(J)**(7./8.))
      011 = 0/(2(J)*(TH+TS(J) - H))
      TCHAR2 = (3/(THETS(J) - H)) + +.5/2(J)
         ITERATION ON FOUNTIONS 55 & 57 TO FIND B
  830 CONTINUE
      TDIF2 = TCHAR2 - TCH2
      IF (TCH/R2 .LT. .01) TCH482 = .01
      94 = (2(3)*10'14'2)**2
      TCHA22 = TCHA21
      TCHA21 = TCHAR?
      KT = KT + 1
      03 = FX2(-04)
         FROM EQUATION 57
C
      TCHAR2 = 011*(.(1)*TCH2*03 + (1. - 03)*(T01F2/(R(1)*TCH4R2**2)))
 1836 FORMAT (4F15.6)
      TCHA12 = TCHA11
      TCHAIL = TCHN32
      D3 = TCHA21 - TCHA32
      ABD3 = ABS(D3/ICHA21)
      IF (ACO3 .LT. .0011) GU TO 840
      1F (KT .GT. 3A) 30 10 239
      IF (KKK .GT. 0) GO TO 834
      IF (03 .GT. 0.) GO TO 835
      TCHAR? = 1.1*TCH121
      SC TO 330
  835 COMTINUE
      1CHAR2 =1.05#TCH121
      KKK = 1
      SO TO 830
  834 IF (K) -(F. 1) 30 TO 436
      TOHORS = (TOHARSATCHAS) - TOHORIATOHASS)/(TOHARS - TOHARI - TOHARS
     1 + TCHN21+*(7000001)
      SU TO 330
  839 WRITE (5,173)) TOHNEY, TOHNEZI
 1339 FOR ANT (* TOBA: ITENTION FAILET*, 2520.8)
  840 CONTINUE
         FROM FOUNTIONS 55 & 56
      B(J) = (TSHA-2 - TSH2)/212
      F(J+1) = S(J)
  779 00011...30
              FINITED BUTTON FOR OTHER BUTTONESSINES
         CHECK TO A TO AT ALL HIS TORN BAYON
      Su^{\alpha}(z) = 0.
      SUPP4" = 3.
      PO 752 I = 1.5
      +43 = P(!)
      SETTO = S : 12 + 3(I) * 43
  752 54 1963 = 54 343 + 342
      RAVS = 59 KT/31 243
      621 2 = 0.
      . 7 751 1=1,
                       (1))::7/-(1)
```

```
802 CONTINUE
      \Delta M = \Delta
      BY = PAVG
      GO TH 804
  803 CONTINUE
      LCOUNT = LCOUNT + 1
      IF (LCOUNT .GT. 5) GC TG 1999
  804 CONTINUE
      ERRUAK = TERROR
      WRITE (6,136)
                          BAVG. ERROF. A
C
         INCREMENT A GUESS
      \lambda = \Lambda + .002
      GO TO 769
C
         GOF THEORY FIT--EVALUATION OF EQUATION
 1999 CONTINUE
      BAVC = BK
      \Lambda = \Lambda
      ARITE (6,137) BAVG, A
      WRITE (6,137) MAL, HYONAL
      #RITE (6.1313)
 1818 FCP: AT (9x, *THS*, 9x, *3RAD*, 10x, *P23*, 9x, *TCH2*, 9X, *TDIF2*, 8X, *PRES
     15',9X, 'PSS',10X, 'PSR',0X, 'ASIP')
      M = 50
      PPESS = 1.02
      DO 819 I=1,4
      PRESS = PRESS - .02
      KTSU = 0
         STRAIGHT LINE INTERPOLATION OF PLAME TEAP AS FUNCTION OF PRESS.
      15714 = 10600
      PYIN = 8600%.001
      DTOP = \{TF1000 - TF500\}/\{P1000 - P500\}.
      IF (PRESS .GT. .6) GO TO 603
      15^{5}13 = 15399
      Phil = P300%.001
      0109 = (16000 - 16300)/(9600 - 2300)
      1F (54ESS .CT. .3) 37 TO 503
      TF:[] = T=120
      PMIN = P130%. 101
      0102 = (18300 - 18190)/(2300 - 2100)
      IF (9-538 .......) 12 T2 (12
      TRAIN = THUNG
      5. I. = 5333
      OTO: #(TPI:// - 17.00)/(2100 - 2000)
  533 TECES = TEMEL + (3 CSS - 3 1/1/4 HER
      (\pm (117 - 227) (1 - 11 - 97, -1) = 9575PT
      2 = TSF 180 - 411
      TEN = 35059/15
        (120° 51) (1° (1
CC
      17: '11.
                  F (1.29), [7.1]
  300 01 311 10
```

```
C
          FQUALIDM 53
       TSR = 1./(1. - (RGAS*)SO/FSURF)*ALGG(RGUESS))
       TS = TS=*137
       (4.11 - CcT)(4.111 - ST) = SHT
       EEF = EXP((EFLA+E/(FGAS+2.*TFO))*(1./TFR - 1.))
C
          TCH2 IMPLIES THE SQUARE FOOT OF TCH, ETC.
C
          EQUATION 54
       TCH2 = 1#EE!#TFR##,25/90035
C
          FOUATION 55
       TDIF2 = 31V3*TF /#Y(5./5.)/(PFESS##(1./3.)#TSF##(7./8.))
C
          EQUATION RS
       ICHAR2 = 1012 + TOIF2
       TCHAR = TCHAR2##2
       EXPPT = EXP(--3)ESS**2*TCHAR)
C
          EQUATION 51
      GRAD = (J#RGJ#SS/TCHAFZ)#(TCHZ#EXFRT + (1. - EXRRT)#TDIFZ/
     1 (RGUESS##2#TC (F))
      1\Delta H = H\Delta I
                                                                   1
       IF (TSR .LT. SEMBLT) I = HMCMAL
C
          EQUATIONS
      RSS = CPAD/(TiS - H)
      IF (RSS .LT. .)01) RSS = .301
      DR = /35(355 - 950ESS)/83JESS
      1r (D)
               - .0011 613,413,812
  812 CONTINUE
      KTS? p KTSR 4 1
      RSSS = RSSI
      `S$1 = $$$
      302 = 931
      9G1 = 33MESS
      IF (KIS) - 1) 314, 114, 315
  SIA CONFINIE
      285 = 285 - 73 H 39
      #GUFSS = RST 33*(I. + .05*(3*S(3*S), ^S))
      GETTE BOW
  BIS CONTINUE
      IF (KTS- - 20) 017,817,320
  817 0 M.T1592
      RB9538 = 1 x3528 51 - x8818-62)/(-882 - 2881 - 232 + 831)
      SHITT BLO
  820 /511= (*.1317) SS, 4327SS
 1517 FORMATO - US IT - WITE SWILLD, US, OF SS*, 2515.4)
r.
C
         FOR DESCRIPTION STATE OF LOS ANTERMOMENTAGE
  31
      C TITINGS
      222 = P(F35 = (2./ ...)
      231 = 2,135/135
       \square I (I) = -8.5\%
      #SITE ((,122 ) 153 (3.5 ,225,10 )2,10 (2,10 )2,20 SS,288,43[V(I)
 1920 FLINAT (9713.4)
  817 C 1.11 . m
      3 1 7 1 1 1 1 1 5
  591 0 1 1 1 H
      51.0
      E 110
```

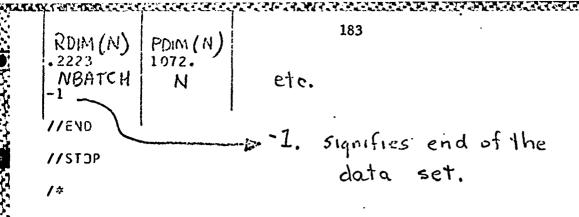
## C. Sample Problem Input

Equation	Fortran			Loca	tion
Symbol	Symbol _	Description	Units	Card	Col's.
Batch #	NBATCH	Identifies propellant batch If NBATCH < 0., signifies end of deta	-	1	1-5
	N	Number or R vs P points	-	1	6-10
ro	RO	Burning rate @ po	in/sec	1	11-20
T _{f,o}	TFO	Flame temperature @ po	°K	1	21-30
	AP	Decimal fraction AP content	%/100	1	31-40
	FUEL	Decimal fraction fuel content	%/100	1	41-50
	AL	Decimal fraction aluminum content	%/100	1	51-60
T _{s,o}	TSO	Surface temperature of 80/20 PBAA propellant @ p _o .	o _K	1	61-70
P _o	PO	Reference pressure	psia	2	1-10
Es	ESURF	Surface activation energy	cal/mole	2	11-20
E _f	EFLAME	Flame activation energy	cal/mole	2	21-30
T _{CO}	TINF	Ambient propellant temperature	o _K	2	31-40
	AGUESS	First guess of A value	-	2	41-50
	TF1000	Adiabatic flame temperature @ P1000	o _K	3	1-10
	TF600	Adiabatic flame temperature @ P600	o _K	3	11-20
	TF300	Adiabatic flame temperature @ P300	o _K	3	21-30
	TF10C	Adiabatic flame temperature @ P100	o _K	3	31-40
	TF000	Adiabatic flame temperature @ P000	°K	3	41-50
	P1000	Pressur for TF1900 (p/p _o )	-	4	1-10
	P600	Pressure for TF600 (p/p _o )	-	4	11-20
	P300	Pressure for TF300 (p/p _o )	-	4	21-30

Equation	Fortran	•		Loca	tion
Symbol	Symbol_	Description	<u>Units</u>	Card	Col's.
	P100	Pressure for TF100 (p/p _o )	-	4	31-40
	P000	Pressure for TF000 (p/p _o )	-	4	41-50
r	RDIM(J), J=1→N	Steady state burning rate @ PDIM (J)	in/sec	5 <b>→(</b> N+5)	1-10
P	PDIM(J),	Pressure corresponding	nsia	5+(N+5)	11-20

15.1 Problem Parazzasal Baszazzaszan (parazzaszan) parazzaszan parazzan parazzaszan parazzan (parazzan)

1-5,6-1	10,1120	.21-	30 31	•		
779814					10 61-	
	N RO	TFO	IAP	FUEL IAL	1 TSO	
1 /	2 3485	1840.	• 75	.25	1000.	
1000.	ESURF 16000.	EFLAME 20000.	300.	A GUESS	1	
TF1000 1840.	17500 1840.	7F 300	TF100	TF000		
P1000	P600	P300	P100	P000		
RDIM(1)	PDIM(1)		• 1	0.0		
.0657 RDIM(2)	18.5 PDIM(2)			•		
1001	42.					
-1268	70.					
-1518	106.					
•1821	165.5					
-2158	257.					
•2543	404.			·		
•2953	613.					
•2954	620.					
•324	803.			•		
•3493	1003.					
RDIM(N)	PDM(N)				_	
NBATCH, 14	, Ro	TFO	AP	FUEL AL	750	
Po 1000.	ESURF	E FLAME	TINE	.25 Aguess	1000.	
7F1000	16000. TF600	20000.	300.	067	:	
1840. P2000	1840.	TF 300 1840.	1840.	TF 0 00 1840.		
1.	P600	.3 P200	1 P100	P000		
RDIM (1) •0614	PDIM(1) 35.5		1			
RDIM(2)	PDIM(2)					
.0753	56.2					
•0848 °	74.5					
.0945	; 97.1					
•0982	106.9					
114	157.5					
;•1381	: . <b>2</b> 65•					
1602	: 403.					
•1775	544.					
.2027 -2027	Pbm(% 1)					



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## D. Sample Problem Output

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Equation Symbol	Fortran Symbol	Description	Units
Batch #	NBATCH	Identifies Propellant Batch	• •
	N	Number of R vs. P data points	-
ro	RO	Steady state burning rate @ p	in/sec
T _{f,0}	TFO	Flame temperature @ Po	o _K
T _{s,o}	TSO	Surface temperature @ po	cK
	AP	Decimal fraction oxidizer	-
	FUEL	Decimal fraction fuel	Ţ
	AL	Decimal fraction aluminum	-
R	R	Non-dimensional burning rate (r/r _o )	-
P	P	Non-dimensional pressure (p/p _o )	•
T _{fred}	TFRED	T _f /T _{f,o}	•
T _{sred}	TSRED	T _s /T _{s,o}	-
P ^{2/3}	P**2/3	P(J) ^{2/3}	-
P/% .	P/R	P(J)/R(J)	~
	BAVG	$\sum_{i=1}^{N} B(J)P(J) / \sum_{i=1}^{N} P(J)$	*
	ERROR	$\sum_{J=1}^{N} B(J)P(J) / \sum_{J=1}^{N} P(J)$ $\sum_{J=1}^{N} \left\{ [BAVG-B(J)]^{2} P(J) \right\}$	•
	A	Current guess A value	-
	BM	BAVG with smallest ERROR	-
	AM	A corresponding to BM	•
	HAL	Surface heat release term that includes contribution of aluminum	-
	HNONAL	Surface heat release term without aluminum	-
<b>∂</b> s	THS	Non-dimensional surface temperature	•

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Equa Symb	ation ool	Fortran Symbol	Description	Units
کی// P ^{2/3}	h <mark>r(</mark> 86/8X) _{5,9}	GRAD P23	Heat feedback from gas phase PRESS 2/3	• •
		TCH2	Characteristic time, chemical process	•
		TD1F2	Characteristic time, diffusion process	-
P		PRESS	Pressure	
Ř		RSS	Steady state burning rate @ PRESS	. ••
P/Ñ		PSR	PRESS/RSS	
r		RDIM	RSS*RO	in/sec

0.000000 0.0804676 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.165920 0.			186		,																
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150 = 1331.

MJMBER OF DATA POINTS: 12 KG = 0.3445 TFU = 1940. 0.750 AP 0.250 FUFL 0.000 AL

441CH # 451

THS	GRAD	P23	TCH2	TDIF2	PRESS	R.SS	PSR	ROR
182	0,3187	0.6330	0.1599	2.2109	0.5000	2.7838	0.6538	0.2749
53	0.3122	0.6130	0.1557	2.2447	0.4400	3.7775	0.6173	0.2.2.10
532	0.3356	0.5959	0.1739	2.2805	0.4400	0.7659	0.6190	0.2655
505	0.2987	0.5785	8181°0	2.3186	0.4430	0.7539	1.5837	0.2627
111	0.2917	0.5608	0,1975	1651.7	0.45.10	7.7414	0.5665	0.2584
44.0	0.2845	0.5429	0.2000	2.4023	0.4000	0.7286	0.5400	0.2533
2.19	6.2771	0.5246	0.2105	2.4487	0.3400	0.7152	0.5313	7652.0
194	0.2694	0.5051	0.2222	2.4985	0.3600	0.7013	0.5133	0.2444
698	0.2615	0.4871	0.2353	2.5523	0.3400	0.0859	0.4953	0.2394
113	0.2533	0.4673	0.2500	2.5136	0.3200	0.5718	0.4763	0.2341
273	0.2448	0.4481	0.2567	2.6142	0.3000	0.6500	0.4573	0.2230
21.	0.2359	0.4283	0.2857	2.7439	0.2803	0.5394	0.4373	0.2278
187	0.2766	0.4074	0.3077	2.8209	0.2500	0.6219	3.4141	0.2167
38	0.2170	0.3862	1,3333	2.3055	0.2400	0.6034	0.3977	0.2103
3.5	0.2368	0.3644	0.3535	3.0025	0.2200	0.5847	0.3769	0.2034
12.7	0,1961	0.3420	0.4000	3.1114	0.2000	0.5627	0.3554	0.1961
63	0.1847	0.3188	0.4444	3.2365	0.180	0.5400	0.3433	0.1482
001	0.1726	0.2947	0.5000	3.3825	0.1600	0.5154	0.3104	0.1796
801	0.1595	0.2696	0.5714	3.5551	0.1400	0.4885	0.7866	0.1702
113	0.1454	0.2433	0.6667	3.7680	0,1200	0.4586	0.2517	0.1598
00	0.1299	0.2154	0.6000	4.0353	0.1000	0.4249	0.2354	0.1481
.59	0.1126	0.1857	1.0000	4.3894	0.0300	0.3859	0.2073	0.1345
117	0.0928	0.1533	1.3334	4.8935	00000	0.3394	0.1768	0.1183
14	0.0593	0.1170	2.0001	5.7077	00,000	0.2805	0.1426	0.0978
56	0.0396	0.0737	4.0004	7.4381	0.0200	0.1967	0.1016	0.0686

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MUMBER OF DATA POINTS: 11 RO = 0.2162 TFO = 1840. 0.750 AF 0.250 FUEL 0.000 AL

128312 HYTES	1160 BYTES, UNUSED#	1160 137	10523 BYTESOARRAY AREA	10523 BYT	SEC, UBJECT C30E*	1.16 S	0.66 SEC.CXECUTION TIME=	0.66 SEC.E	CJMPILF TIME=
	0.0467	0.0925	0.2162	0.0200	8.2136	3.8503		9060	
	0.0649	0.1333	0.3000	00+0.0	6.3274	1 < 26 • 1	0.11.0	0.0033	0.0104
	0.0775	0.1675	0.3583	0090.0	5.4362	1.2839	666100	00000	20000 20000
	0.0874	0.1930	0.4042	0.0800	6.8854	0.7075	0.100	7760 0	000000 40000
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	0.1092	0.2776	0.5043	0041-0	70000	00000	0.2640	0.1316	0.8802
	0.1147	0.3016	C0.50.0	0001.0	7 6 7 6 7		7076	0, 14.30	000000
	0.1199	0.3244	0.040	0091-0	7710.5	277.0	* * * C	0.1888	7.40%-0
	0.1247	0.3463	0.5766	0002-0	15/5-5	0.585.0	0246.0	0 1463	45.00.0
	0.1291	J. 26.85	0.5971	0.2200	3, 3543	0068-0	****	76.19.7	0.000
	0.1332	0.3494	0.6153	0.2430	3.2481	0.32 nB	0.3862		0,100
	0.1372	0.4098	0.6344	0.250	3.1535	0.2962	+404-0	0.2335	0.4243
	0.1409	86240	0.6515	0.2800	3.0683	0.2750	0.4280	0.2117	0.9283
	0.1444	0.4493	7.6677	0.3000	2.9911	0.2567	0.4481	0.2196	9324
	0.1477	0.46.44	3.533	0.3200	2.9237	0.2406	0.4676	0.2272	1986.0
	6641.0	0.4871	0/69*0	0.3400	7.8551	0.2265	0.4871	0.2345	0.4395
	0.1540	0.5050	0.7121	0.1600	2.1955	0.2139	0.5061	0.2415	0.9427
	(1569	0.5336	0.7257	0.3800	2.7412	0.2026	0.5246	0.7483	8040.0
	0.1577	0.5415	0.7333	0.46.10	2.5834	0.1925	0.5429	0.2550	1846.0
	1525	0.467	0.7514	0.42.00	6149.7	0.1433	0.56JR	0.2514	0.9514
	1671	1. 1703	0.7545	0.4400	2.5970	0.1750	0.5785	0.2576	0.4541
	0.117	** * * * * * * * * * * * * * * * * * * *	5.1152	0.4530	7.5547	0.1574	0.5954	0.2737	0.4556
	1,71.0		2.44.6	0.4800	7.5150	3.1504	9.6140	0.27%	0.9590
	MAG	PSA	A.S.S	PRESS	TDIF2	45F	623	SKAO	THS

### SECTION III

# PROGRAM TO PREDICT EXTINGUISHMENT AND CALCULATE DYNAMIC BURNING PROPERTIES FROM PRESSURE VERSUS TIME DATA INPUT

#### A. Description

This program, entitled PREDICTR, utilizes the combustion model detailed in Section IV of AMS Report No. 880 to predict whether or not a specific depressurization will extinguish a burning solid propellant. The program requires input of the constants 'A' and 'B' determined by a separate program entitled ABDETRMN, the physical properties of the propellant, and pressure as a function of time. The output includes a listing of pressure, burning rate, temperature gradient, flame temperature, temperature profile, surface temperature, and the characteristic times of the diffusion and chemically controlled processes in the model all in non-dimensional form as a function of time, as well as burning rate in cm/sec, pressure in atm., and surface temperature in degrees Kelvin as a function of time in seconds. The criterion for extinguishment used in the computer was that the surface temperature must fall below an 'extinction temperature' specified as 600°K.

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в.
     LISTING
// EXEC FORTHOLD
//SDURCE.SYSIN DO W
      DIMENSION TAUL(1500), TAU2(1600), TAU3(1400), SI(1500), TH(1500)
      DIMENSION DEF(15 ),T(15 ),TAU(15 ),XLMP(15 )
      DOUBLE PRECISION OPMA(15,12), UPMI(15,12), OPM2(15,12), ODQ(15),
        DAA(15), DOATED(15), DOA(15), DEXT(15), DOXX(15), DEXP
         N=PREDICTS
         PHYSICAL COURDINATE SYSTEM USINE FOR INTEGRATION OF THE SOLID
         PHASE. CONTAINS GRANULAR DIFFUSION MODEL USING MEIGHTED STEP-
         IMPULS: INTEGRITION OF THE GAS PHASE.
      Sarron.
                                  TEREO, THS.
                                                         ESURF. ALMELT.
    D EFLANE, MGSS,
                          TFJ.
                                     TSJ.
                                                          H/L,
  14 FORMAT (1X, *P##(2/3) =*,F10.6,10X, *P/H =*,F10.6)
 102 FORMAT (3F14.3, /. 10%, *ITEPATION ON PHI FAILED! ,/)
 103 FORMAT (2X, FFF ITHRATION FAILED*, 2F18.8)
 113 FORMAT(4X, 4F12.5, 4X)
 114 FORMAT (20X, *PEPRESSURIZATION MODEL: *, /, 86X, *H = *, F8.3, /, 10X,
        *E-ACT (SURE) =*,F0.0,5X,*A =*,F7.3,5X,*HI =*,F8.4,/,70X,
        *PRESSURE VS. TIME DATA FROM RUR #1.15./
                           10X, 'PO = 1, F7.0, 17/, 'B = 1, F7.3, 5X, 'HS = 1,
       63.4./.75X, 190. OF DATA POINTS USED =1,15./.
                                    7X.16. POINTS WERE USED IN THE SPACE
    5 COURDINATE . 1,///)
 115 FORMAT(F10.3,258.4 ,253.4,57.3,256.2,558.4, 610.6,57.2,57.3,57.1)
 116 FORMAT [4X,*TI H:,2Y,*PFESUFE*,2X,*RUFNING*,2X,*FLAME*,
    13X,*TE4P*,3Y,*R//F)*,2X,*T)IF2*,1X,*TCH2*,7X,
                               *TEMPERATURE PHOMILM IN EVENLY*,9X,*REAL *
              1,1 SUPPLING TEMP 4
                ,/,21x,*?ATE*,4x,*TEMP*,4x,*3@AD*,34x,
                                                                  ISPACED
    SINCHEMENTS*, FAY, *TIME*, 4X, *ATM*, 3X, *RATE
                                                  SU-F*,/119X,*C*/SFC
    575351,/1
 117 FO-MAT (IN1,1X, ****,/)
 118 FDRMAT (//,10X,*CASE DID MOT FXTINAUISH.*,30(*#*))
 119 #57771 (//10X,*10458 FXTINGUISHED.*,10X,20(***),10X,20(***))
 123 FURBAT (2510.0)
 121 FORMAT (10X, )?3.10,/)
 122 FORMAT (104,*TID = *,F10,4,10X,*OEF = *,F15.7)
 123 FORMAT (10(,212),0)
 124 FORMAT (114,7017.0)
 125 FOW AT (15)
 125 FUR IAT (3711.0)
 533 FORTME (3:14.54/41/94/11/05/11/11/15) A FMILEDIA/)
1793 FORMAT (1H1,/,12,100((#1),//)
1795 PLRINT COXXIDE OUT DIFFIBIO. COME USING PROMICE STEPHINGESE
    ZINTEGRATION OF THE GNS PHASE.1,/)
     3319 = 0,
        TO PIN MEDICINESS, SOT C = 1.
        YOU NOT BEST CHART WAY IT FULL BUT THEY PROPELLANT.
       = 1.
```

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```
505 CONTINUE
C
C
         IMPUT DATA FOR A MEW BATCH OF PROPELLANT.
C
      PEAD (5,126) A,R, AP, FUEL, ESURE, AL, ALPHA
      READ(5,126) EFLAME, RREF, TEO, TINE, TSO, PREF
      READ (5,125)
                    TF1000, IF600, TF300, TF100, IF000
      READ (5,125) P1000,P500,P300,P100,P000
         THE SUPPACE TERMENATURE AT 1000 PSIA IS CALCULATED FROM THE
         SUPPACE TEMPERATURE OF AU-20 PENA AT 1000 PSIA, WHICH IS TAKEN
         TO BE 1000 DEGREES K (IE, THE IMPUT VALUE FOR TSO.)
         .273 IS THE BURNING RATE OF 80-20 PHAA AT 1000 PSIA.
      PREEXP = .273*LXP(FSURF/(RGAS#TSO))
      TSO = (ESURF/+SAS)/ALOG(PREEXP/++EF)
  191 CONTINUE
      IS100 = 0
C
         INPUT DATA FOR A PARTICULAR DEPKESSURIZATION RUN.
         IUKI = EVEN NU BEE OF POINTS.
         IF ANY DATA IS INCLUDED FROM THE TAPE, IT MUST BE PRECEDED BY A
C
         CARD HAVING A MEGATIVE DUMBER IN THE FIRST TEN COLUMNS AND THE
C
C
         MAGNITUDE OF THE TAPE DEFLECTION AT ZERO TIME IN COLUMNS 11-20.
      READ (5,120) RUTH CIUKI
      IF (CIJA1 .LT.0) 39 TO 605
      IF (RUY .LT. 0.) SO TO 44
      NRUN = RUN
      IJKI = CIJKI
      IJK2 = IJK1/2
      IJX3 = IJX2 + 1
      IJK4 = IJK2 + 2
      \langle 10 = 1
     WPITE (6,117)
      JD 201 I=1,IJ<1
 195 CONTINUE
      READ (5,120) T(1),07F(1)
      IF (K10) 195,196,107
 DEF(1) = DEF(1)*DEF(1)/DIAPE
     Su 17 199
 197 CONTINUE
     IF (T(I)) 198,199,199
 193 410 = -1
     TAUFIN = T(1-1) > > TERAZZZALDAN
      DFIR = MER(1-1)
     CIADE = DEE(I)
     SJ T3 195
 199 2771175
        MOTE: TI F IS SHACIFIED IN HUMBHERIUS DE SECUNDS, I.F. IN TENS
        OF MILLISTOR DS. THIS STEP CURRECTS THE INDUT ID MOTHAL SECONDS
     I(1) = I(1)*.01
     APITO (6,1721 717), (EF(1)
     71.12(1) = 11 (1 (m (1) / 1/2(1))
     TAJ(I) = THEFR TERRAPH
```

```
C
          SET UP COEFFICIENT MATRIX:
C
       DO 200 J=1, 1J-2
       JJ = J + 1
  U^{\pm\pm}(1)U/T = (UU,I)AMSG CCS
       DPMA(I,I) = I_s
       DPHA(I,IJK4) = XLEP(I)
  201 CHATTAUS
       DFFO = DEF(1)
       IF (<10) 192,192,193
  193 CONTINUE
       (I \times I) \cup AI = ZI = \bigcup AI
       DFIN = DEF(IJKI)
  192 CONTINUE
       9FTA = -XLYP(2)/TYU(2)
       PETA = SET1$4.
C
          FIRD NORMAL FOUNTIONS:
C
       00 203 I=1,IJK3
       DU 202 J=1,IJK4
  202 \text{ PRMI(I.J)} = 0.
  203 CONTINUE
       DD 206 K=1, IJK3
       DO 205 L=1, IJK4
       DD 204 M=1, IJK1
  204 DPM1(K,L) = DPM1(K,L) + DPMA(M,K) + DPMA(M,L)
  205 CONTINUE
  206 CONTINUE
C
          REGIN SOLUTION OF SIMULTANEOUS EQUATIONS:
       DO 217 "=1,!JK4
       48 = 3 - 1
       DO 208 I=1, IJK3
       K = IJK4 - I
       DO 207 J=1, IJK4
  207 7942(I,J) = 7941(~,J)
  203 CONTINUE
       IF (NN) 211,211,209
C
          CRAALINS PULF:
  209 DO 210 L=1,IJK3
       DP'12(1,11) = DP'12(1,1364)
  210 00"11::7
  SHI CONTINUE
C
          EVALUATE DETER THANTS:
       DD 214 I=1,IJ<2
       II = I + 1
       Dii 213 J=II,IJ<;
       00.1110(U) = 0.002(U, I)/0002(I, I)
       90: 212 P=1. TJ/3
  212 39^{\circ\prime\prime}2(J,K) = -2^{\circ\prime}2(J,K) - 0.0011(J)^{\circ\prime}2^{\circ\prime}2(I,K)
  21 + 00° TI' +-
  214 CORTE #
```

Secretary (National Progression of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t

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```
DDA(N) = 1.
      IF \{IJK1 - 12\} 234,255,237
 237 00 239 1=1.5
 235 DOA(N) = DOA(1)*DPM2(1.1)
      DPD('1) = DDA(N)
      DOA(N) = 1.
      DO 239 I=5.1JK3
  239 \text{ DDA(N)} = \text{DDA(N)*DPM2(1,1)}
      (V) \land GC = (if) \times GCC
      GO TO 240
  236 CUNTINUE
      DD 216 I 1.IJK3
  216 PDA(N) = PDA(N) #DEM2(I, I)
      DDD(2) = DDA(2)
      ODDX(N) = 1.
  240 CORTINUS
  217 CONTINUS
C
         ANSWER. I.F. JYKNOWN COLUMN MATRIX:
      00 218 N=2, IJK4
      DAA(N) = DDD(N)/DBB(1)/DBBX(N)
  218 WRITE (6,121) DAA(N)
      PO = DEF(1) * 193.
      PEIN = (DEIN=100. + 15.)/PREF
      R2BYAL = RREF#RREF/ALPHA
      LCOUNT = 0
      ICOUNT = 1
         CALCULATION OF NON-DIMENSIONAL SURFACE HEAT RELFASE
      HI = AP = 750./(.333 \pm (TS) - TIAF))
      HS = (AP#455. + FUEL#225. + AL#63.1/(.333#(TSO - TINF))
      H = HI - HS
      HAL = H
      HSN= (AP#495. + FUCL#225.
                                          )/(.333#(TSO - TIME))
      HNOVAL = HI - HSN
      ALMELT = 933./TS2
      XI = 1.
      DELTIM = 3.025/0514
  150 CONTINUE +
      DELX = .06
                  -DELTI
      TTTT =
      21 = 1.
      = 1.
      850 = 1.
      P = (P0 + 14.7) / P377
         STRAIGHT LINE I TEXPOLATION OF FLOWE TEAR AS FUNCTION OF PRESS.
      TEMIN = TESSO
      P411 = 2403
      DT9P = \{TF1939 - TF339\}/\{P1339 - P596\}
      IF (P .GT. .4) GT TO 602
      TFKLI = TFROC
      P41% = 9300
      DTOP = (TESO) - TESON/(PACE ~ PRO)
      IF (P .GT. .3) 30 TO 572
```

```
NOT REPRODUCIBLE
       TEMIN = TEIOO
       PFIN = PIDD
       DTOP = (TF300 - TF100)/(P300 - P100)
       IF(P .GT. .1) GU TO 602
       OCORT = VIRRT
       0009 = MIK9
       0000 - COIG)\(CCCFT - COIFT)= 9000
  THETEP = (TEFEP - TIME)/(TSP - TIME)
      CTT\caCar = SAT
       TEREQ = TER
       Q = THEOF2 - H
         FIND SIEADY STATE BURNING PATE FOR THIS PRESSURE
C
      CALL RESULTAGES
      RSTARI = RE)
      PSTAR = PSTAR1
      RO = REQ
      THPREV = THS
      MM =. 12./(RO#DELX)
      MU^* = M^* - 1
      EMI = MM + 1
      ARITE (6,1793)
      #FITE (0,1735)
      WPITE (6,114) H, ESURF. A, HI, MPUM, PO, H, HS, IJK1, NUM
      WPITE (6,116)
      LINES = 15
C
      INITION BOUTABLE PROFILE
      98.7 I = 1, 44
      ZI = I
    7 SI(1) = EXP((1. - 21) # OFL X # R O) # THS
      TH(121) = 0.
      TH(161) = 0.
    5 CONTINUE
    3 \text{ KCU'}.T = 0
      TITE = JITE + OFLIE
C
C
      P = PFIN
      SEAFL = IIII\uSakai
      IF (TITT - 1'HFIN) 229,228,231
  223 00 ITTHUE
      90 223 I=2, IJK4
  229.05 \times 1(1) = 144(1)
      ጉጉ 250 I=1,IUk?
      IiiJ = I + I
      I \times K = I + 2
  18*1111*(\range + (LT1)172C = (\range 1)173C CE
         PPO IS THE PRESSURE CIVIDED IN THE LITTIAL PRESSURE.
         P 15 T (1 / 35%) | I | P511 PIVILTO BY 1001-P511. | I. E. P 15 T4:
         3158 II WHILE THE AMBRES WITE IS RIT.
C
         R IS THE WIRL OF THE DIVIDED BY POSE, THE PHRNING FATE AT
```

```
NOT REPRODUCIBLE
           1000. 2514.
 C
        PPO = D(X)(XX(IXX))
        P = (PP0*2) + 14.71/20EE
           PPO IMPLIES PSAUSE / PO GAUGE
 C
 C
   231 CONTINUE
 C
           STRAIGHT LINE INTERPOLATION OF FLAME TEMP AS FUNCTION OF PRESS.
        TEXIV = T9600
        PMIN = P600
        OTOP = (171000 - 17400)/(P1000 - P600)
        IF (P .GT. .A) GD TD 603
        TF''IV = TF300
        PMIN = P300
        DIOP = (T9600 - T9300)/(P600 - P300)
        IF (P .GT. .3) GO TO 603
        CCLFT = RINFT
        CCIG = VIMA
        OTOP = (TF300 - TF100)/(9300 - P100)
        IF(P .ST. .1) 32 TG 603
        TEMIN = TEODO
        PMIN = POOD
        DTOP = (TF100 - TF000)/(2100 - PG00)
   603 TEOFP = TEMIN + (P - PAIN) #OTOP
        TERED = TEJEP/TED
        THEORP = (TE)^{GP} - TIME)/(TSO - TIME)
        9 = THF0F9 - H
        R = 2.48ST3R - 4STAR1
        IF (R .LT. .000)1) k = .0001
        MMOED = MY
           KEEF F#X > 10.
 C
        44 = 12.7(44361X)
        GROW: - ME (CACHE TAL MELD
        IF (34 \cdot 37 \cdot 1593) 44 = 1598
        NU^{*} = 34 - 1
        MM1 = M1 + 1
        DD 243 1 a MHOLD, 74
   243 SI(I) = 0.
        T==21 = 0.
        TFR1 = 0.
      9 \text{ IJK} = 0
        16 (? .LT. .^^))) R = .^cot
        <T^2 = -1
           FQUATIO: 10, AM - 31 45 451, Call 12E -
        TSR = 1./(1. - (2315#150/#30/E)#NL75(R))
        TS = TS'ATST
        I+S = (TS - II P)/(TSO - TIME)
   297 16 = 1550163
        THF = \{TF - TIFF\}/\{TSO - TIME\}
        FEE = EXP((E+L)Y / C 015#TF3#2.)]#(1./TFP - 1.)]
. · C
           TOTAL TOURS THE SOURCE FORT OF TOTAL BYOLD
           709ATI #1 35
 C.
        TOHE = 1#999479, 44.2 /2
           F 2014TT 2 35
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TDIF2 = 8#TF-4*(5./5.)/(P##(1./3.)*TSR##(7./8.))
C
          EQUATION 37
       TCHAR2 = ICH2 + IDIF2
      TCH4R = TCH132##2
      EXRAT = FXP(-T#P#TCH6x)
      MITUECY(VERGILT - CHT) = UAICIG
      IF (TSR
                    ·LT. NUMBER?) H = HNOMAE
          EDUATI NS 25 & +1
      FORK = ()#R/10HAPR)*(TCH2*FXFRT + (1. - EXERT)*TDIF2/(R*R*TCH1R))
     1 + ++> -C*010149
          EQUATION 42
      THE = THS + Q + H - FORK/R
      IF = 14F*(ISO - 114F) + TINE
      IFF2 = IF91
      TERT = TER
      TFR = TF/TFO
      IF < 22 = IF < 21
      1F921 = TFR
      KIF = KTF + 1
      DELIF = 435(TFR - TFR1)/TFP1
      IF (DELTE - .001) 309,309,306
  306 CONTINUE
      IF (KTF : 307,407,303
  307 TER = TERIA(1. + .1*(TER1*DELTE)/(TER - TERI))
      GD TU 297
  308 CONTINUE -
      IF (KTF - 20) 311,311,312
  311 CONTINUE
      TFP = (TFR228TFR1 - TFR21#TFP2)/(TFR22 - TFR21 - TFP2 + TFR1)
      IF (TER .LT..01) TER = .01
      SO TO 297
  312 CONTINUE
      2817: (6,103) Ted, Tekl
  309 CONTINUE
      \Delta 1 = 4/2.
      A2 = (A) * A1 + 1./(BullTIM*XI)) * * .5
         FOUATION 77
      ZL^{5/2} = -(11 + 42)
      ZL2#1 = -21 + 12
      F = C5894
C
      PUNGE KUTTA 4TH 3-039 METHOD
         EQUATION 32
      TAJI (\cdots) = \sim.
      TAU2(1) = 1.
      TAJ3(1) = Z(1) 2 \times S1(1)
      70 61 J=1,1.3
      2J = J
      "TEL31 = ZL112/7T\UD(U) ~ SI(U)/)*LTI1/XI
      X31 = T1/3(J) + .55 M(3) = 18X
      1404VS = ($1(J) : $1(J*1))/2./ ELT: /kI
      DEL32 = 761 12 m .1 - Thylivia
      X32 = Tru3(1) + .597.1329 + 12
```

```
DEL33 = ZLAM2*X32 - TAUAVG
        X23 = TAU3(J) + DEL33*DELX
        DEL34 = ZLAY2 # Y33 - SI(J+1) / DELTIM/KI
        91AU3 = (AFL31 + 2.*07L32 + 2.*9EL33 + DEL34)*9ELX/6.
        TAJ3(J+1) = TAJ3(J) + 0TAJ3
        XLAM2 = ZJ#DELX#ZLAM2 .
        VF ((-XLAM2) .GT. 50.) GG TG 60
        TAU2(J+1) = EXP(XLAV2)
        GO TO 61
(.c = (1+1)\%(AT C6)
61 COMIXNUE
        99 73\L=1,11%
         J = 4\%k - L
        DEL11 = ZLAMI * TAUI(J) + TAUI(J)
        X11 = T4\lambda I(1) - .5 \pm 0 \pm 1.11 \pm 0 \pm 1.
        TAUAVG = (VAU3(J) + TAU3(J-1))/2.
        DFL12 = ZLA 1 * X11 + TAUAVG
        X12 = TAU1(J) - .5#98L12#DELX
        DELIS = ZLASIXXIZ + TAJAVG
        X13 = TAU1(J) -\ DEL13*DELX
        75L14 = 7LA"1#X13 + TAJ3(J-1)
        OTAUL = (DELIL + 2.#06512 + 2.#06613 + DECL4)#DEEX/6.
        TAJI(J-1) = TAJI(J) - DTAU1
70 CONTINUE
        END OF RUNGE KUTTA
                 EQUATION 83
        88 = (-FD3K - ZLAMI*TAJI(I) - ZLAM2*SI(I))/ZLAM2
                EQUATION 81
        TH(1) = 14J1(1) + 89 + TAU2(1)
        TS = TH(1) + (TSO - TIME) + TIME
        TSPED = TS/TSP
                 CONTINUE TO A TOTAL TO A TOTAL TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE TO TAKE
        R = EXP((ESU^{F}/(PSAS*TSO))*(1. - 1./TSPED))
        FND OF NEW FEEDRACK LAW
        ZAA = ACS(373ED - R)
        I + TVU(Y = TVU(Y)
        IF(ZAA - .001) 17,17,23
23 CONTINUE
        255 = 551
        32 = 21
        21 = 6
        201 = 4007)
        IF (<0.J)17 - 1) 25,25,25
25 CONTINUE
        R = (2 + 3)25\%/2.
        [F (2 .6T. (1.2%204E0)) R = 1.2**P160
        SO TO 9
25 CONTINUE
        IF (< ) 5.7 -12) 22, 22, 23, 13
13 CONTINUE
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AAZ,C3995,8 (666,6) 2719%
       LIMES = LIMES + 3
       IF (LINES - 55) 53,54,54
    54 APITE (6,117)
       WPITE (6,116)
       LIMES = 0
    53 CONTINU=
       GC TO 17
   PUNITARD SS
      R = (9)1*32 - 81*2921/(891 - 892 - 81 + 32)
      PELK = 2 - 221
      286 = A3S108L01/321
      IF (253 - .1) 171,171,170
  170 5 = 201 + .1*)=L2/283
  171 CONTINUE
      GC TO 9
   17 CGNT House
      00 20 L = 1, 14
C
         ECUATION 81
      TH(L) = TMM(L) + PR#TAU2(L)
  SO SI(L) = (IJ(L) - SI(L))*(1. - VI)VXI + IH(L)
      THPREV = TH(1)
  19 RSTAR1 = RSTAR
     ESTAR = 4
     PC" = 9#0 2FF#2.54
        FIND STEADY STATE BURNING PATE FOR THIS PRESSURE
     CALL DE JUL (P.RFJ)
     (28) = 8/8
     PATH = P#22EF/14.7
     WRITE (5,115) TTIT, P. P. THE, FORK, REQ, TOIF 2, TEH2, TH(1 . ), TH(41 ), TH(
    181 1,74(121), T4(161), PEALT, PATM, PCM, TS
     LINES=LIMES+1
     18 (LINES-54) 153,154,154
154 Nº 115 (5,117)
     APITE (0,115)
    LILES=0
153 CONTINUE
    IF (P .LT. .02) 30 TO 151
    DELTI" = DELTI! + (.325*(P - .32)**.4)/36TA
151 CONTINUE
    I= (TH(1) .3T. .45) 33 TO 152
    RRITE (6,119)
    34 F CT EE
15? IF (TITT .LT. TABELY) 30 TO 8
    ISTCP = 151 15 + 1
    IF (18T. P . 3), 121 5 TO 194
    GO TJ B
194 CM(T1) /F
    GU T / 191
44 CONTINUE
   FETUR
   EVO
```

```
SUBROUTINE REDUCTIONESS, ROUESS)
      7.944.00
                   Δ,
                                        THS,
                          BAVG.
                                  TFR,
                                                         FSURF, ALMELT,
                                                 ુ,
                                     is), TINE,
     D EFLAME, PGAS,
                           TF).
                                                          HAL,
                                                                 HHUNAL
C
         THIS ROUTINE EVALUATES THE STEPDY STATE PURMING RATE AT A PRICE
      2SS1 = 0.
      KTSR = 0
      H = HAL
CC
         FROM EQUATION 61
      RGJESS = (Q/(1. - H))**.5/(1/PRESS + B1VG/PRESS**(1./3.))
C
         ITERATIVE CALCULATION OF STEADY STATE BUPNING RATE
C
  SOO CONTINUE
C
         EQUATION 53
      IF (AGUESS .11. .02 ) PGUESS = .02
      TSR = 1./(1. - (RGAS#TSO/ESURF)*ALUG(RGUESS))
      TS = TS \times *TSO
      THS = (TS - TIME)/(IS) - TIME)
      EEE = EXP'(FFLATE/(FGAS#2.#TFO))=(1./TF2 - 1.))
C
         TCH2 IMPLIES THE SOURCE ROOT OF ICH, EIC.
C
         EQUATION 54
      TCH2 = A#FEF#TFR##.25/PRESS
C
         EQUATION SS
      TDIF2 = 3AV3*TF4**(5./6.)/(PRESS**(1./3.)*TS4**(7./8.))
C
         EQUATION 55
      TCHAR2 = TCH2 + TDIF2
      TCHAR = TCHAR2*#2
      EXRT = EXP(-RGUESS**2*TCHAR)
C
         EQUATION 51
      SPAD = (3%3 JJESS/TCHN32)#(TCH2#EX83T + (1. - EX8PT)#TDIF2/
     1 (RGUESS##?#TCHAR))
      H = HAL
      IF (TSR .LT. ALMELT) H = HMONAL
C
         FOUATION 50
      RSS = GRED/(THS - H)
      IF (PSS .LT. .001) PSS=.001
      DR = ABSURSS - RGUESSI/RGUESS
      IF (05
               - .0011 513,313,312
  812 CONTINUE
      KTSP = KTSP + 1
      RSS2 = RSS1
      PSS1 = PS3
      RG2 = RG1
      P31 = R3875S
      IF (375^{\circ} - 1) = 314,314,315
 314 0 P.TINJF
      ?&?U&F - ?&> = &>C
      29JESS = 13JESSH(1. + .05#(45S(0RS)/0RS))
      30 T) 300
 813 CONTINUE
      IF (KISC - 20) 817,817,820
 317 CONTINUE
      RGUESS = 1 7882* UL - 1881*/UPI/(-882 - 1881 - 292 + 2014.000001)
      30 TO 340
 827 APITE (5,131)) 755, 12 1438
1319 637741(0
               PASS ITERATION FAILED. TSS, 'SUTSS', PRIS. 6)
 813 OF VETEUS
        FIG IF STOME STOTE THOREGOES AND CHECKETION
     * FTGRN
```

## C. Sample Problem Input

Equation Symbol	Fortran Symbol	Descr ption	Units	<u>Loca</u> Card	Col's.
<b>A</b>	A	Constant in Equation 35 to be determined by ABDETRM deck from the pressure dependence of the steady state burning rate.	•	1	1-10
В	В	Constant in Equation 36 to be determined by ABDETRM deck from the pressure dependence o the steady state burning rate.		1	11-20
	AP	Decimal fraction AP content	%/100	1	21-30
	FUEL	Decimal fraction fuel content	%/100	1	31-40
E _s	ESURF	Surface activation energy	cal/mole	1	41-50
•	AL	Decimal fraction aluminum content	%/100	1	51-60
αp	ALPHA	Thermal diffusivity of propellant	in ² /sec	1	61-70
E _f .	EFLAME	Flame activation energy	cal/mole	2	1-10
ro	RREF	Burning rate @ PREF	in/sec	2	11-20
T _{f,o}	TFO	Adiabatic flame temperature @ PREF	° _К .	2	21-30
T ₀₀	TINF	Ambient temperature of propell_nt	°K	2	31-40
Ts,o	TSO	Surface temperature of 80/20 PBAA @ PREF (taken to be 1000°K)	. °K	2	41-50
P _o	PREF	Reference pressure	psia	2	51-60
	TF1000	Adiabatic flame temperature @ P1000	o _K	3	1-10
	7F600	Adiabatic flame temperature @ P600	°K	3	11-29
	TF300	Adiabatic flame temperature @ P300	o _K	3	21-30

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				•	
Equation Symbol	Fortran Symbol	Description	<u>Units</u>	Loca Card	Col's.
	TF100	Adiabatic flame temperature @ P100	o _K	3	31-40
	<b>TF000</b>	Adiabatic flame temperature @ P000	° _K	3	41-50
	P1000	Pressure for TF1000 (p/p _o )	-	4	1-10
	P600	Pressure for TF600 (p/p _o )	-	4	11-20
	P300	Pressure for TF300 (p/p _o )	-	4	21-30
	P100	Pressure for TF200 (p/p _o )	-	4	31-40
	P000	Fressure for TF000 (p/p _o )	-	4	41-50
	RUN	Identifies experimental run for particular p vs. t data. If RUN < 0., signifies end of data	r <del></del>	5	1-10 
	CIJK1	The number of points in p vs. t data set. CIJK1 must be equal to 10., 12., or 14. If CIJK1 < 0., signifies read data for new batch of propellant	: <b>-</b>	5	11-20
	T(I)	Time corresponding to some pressure (DEF(I)) for Rull	tens of	6 → (CIJK1-	1-10 +6)
	DEF(I)	Pressure at time T(I) divided by 100. If any data is included from the tape, it must be preceded by a card having a negative number in the first ten columns and the magnitude of the tape deflection at zero time in columns eleven through twenty	psia/100	6→ (CIJK1-	11 <b>-2</b> 0 +\$)

	//DATA.SY	/C19, UD *	aramata eta eta eta eta eta eta eta eta eta	203			
	1 A	. B	, AP	FUEL	1 ESURF	LAL	- ALPHA
	EFLAME	1.92 RREF	15 TF0	-25 TINF	16000.	0.	.30029
	20000.	•2152	1840.	300.	750 1000:	PREF	·
	TF]000 1840.	TF600	TF300	TF100	TF000 1840:		·
	P1000	P600	P300	P100	6009		
	RUN	CIJK1		1.1	0.0	ı	
	183. T(1)	DEF(1)					
	· 0. (2)	7.7 DEF (2)					•
	.08	7.07					
	.58	4.8					
	1.08	3.6	,		•		
	1.58	2.75					
	2.08	2.2					
	2.58	1.8					
	3.03	1.55			•		
	4.08	1.2					
	5.08	• 95					
	6.08	. 73					
i	7.09	.65					
	8.09 T(IJK1)	.58	CIJK	1 < 0.	signifies	new b	atch of
ĺ	10.03	DEF(14)			opellant		
	RUN	CIJK1	es.	•	•		
	. A . 232	6 1.709	AP •75	FUEL .25	ESURF	AL.	ALPHA
	EFLAME 30000.	RIZEF	TFU 1840.	TINF	TSO	PREF	•00030
:	7F]600	TF600	TF 300	300.   7 F 1 U C	1000. TF 000	1000.	
;	1840. Pioce		1840. P300	1340. Pluc	1840. Poco		
	1.0 RUN	·6 CIJKI:	• 3	.1	0.0		
	220.	14.					
•		9.02					
	.2 ·2	DUF(Z) 6.25					
:	.7	3.1					
1	1.2	1.95	•				
	7 (5)	)EF(5)					
	- ·		(cent)		•		
و.	TARRES CARACTERS	እስለ የመጀመር የመጀመር ነው። የመመር እስከ የመጀመር የመጠር የመጠር የመጠር የመጠር የመጠር የመጠር የመጠር የመ			rana arana	87874787878787	*******

T(6) DEF(6) 2.7 .65 3.2 .5 4.2 / .35 T(11) DEF (11) rT(I) < 0. signifies data from tape DEF (12) T(12) follows - DEF(I) = DTAPE DEF (12) T(12) where DTAPE is the magni-4.45 2.8 tude of the tape deflec-T(IJK1) DEF(14) tion at t=0. RUN 221. CIJKI DEF (1) o.T(1) •24 · 5.2 .74 2.35 1.24 1.25 1.74 .65 2.24 .32 DEF(7) ·T(8) · (0. means DTAPE = DEF(8), -1.^{T(8)} DEF (8) proceed to read T(8) and 5. DEF(8) DEF(8). 1.85 4.55 2.85 3.95 3.85 3.5 5.85 • 2.8 T(14) DEF(IJKI) -RUN KO. signifies end of data set. -1. RUN CIJKI

## D. Sample Problem Output

Equation Symbol	Fortran Symbol	Description	<u>Units</u>
	T (I)	Time corresponding to some pressure (DEF(I)) for current RUN	
	DEF (I)	Pressure at time T(I), divided by 100	psia/100.
{	$DAA (N)$ $N=2+\left(\frac{IJK1}{2}+2\right)$	Coefficients in polynomial curve fit expression: $ln(P) = DAA(2) + DAA(3) + DAA(4) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) + DAA(5) $	-
E	ESURF	Surface activation energy	cal/mole
$P_{i}$	PO	Initial pressure	psig
	NUM	Number of points used in the space coordinate (i.e., number of DELX (AX) increments)	<u>i</u> -
A	A	Constant in Equation 35 (see input listing)	-
<b>B</b> .	В	Constant in Equation 36 (see input listing)	-
	HI	Non-dimensional exothermic surface heat release	-
	HS	Non-dimensional endothermic surface heat release	-
н	н	(HI-HS) Total surface heat release	-
	NRUN	Identifies experimental p vs. t data set	-
	IJK1	The number of points in p vs. t data set	•
τ	TTTT	Non-dimensional time $(t/(r_0/r_0^2))$	
P	P	Non-dimensional pressure (p/p _o )	•
R	R	Non-dimensional burning rate (r/r _o )	-
o _f	THF	Non-dimensional flame temperature $(T_f - T_{\infty})/(T_{s,o} - T_{\infty})$	-
30/6X) _{s,p}	FDBK	Heat feedback to solid phase	•

Equation Symbol	Fortran Symbol	Description	Units
R/R	RRQ	Ratio of instantaneous burning rate to steady-state value at that pressure	•
$\sqrt{ au_{ ext{dif}}^{'}}$	TDIF2	Characteristic time for diffusion process	•
$\sqrt{ au_{ ext{CH}}}$	тсн2	Characteristic time for chemical process	-
e _s	TH(1)	Non-dimensional temperature at surface	-
	TH(41)- TH(161)	Non-dimensional temperatures at selected points in the subsurface region of the solid	-
t	REALT	Real time in seconds	sec.
<b>p</b> ·	PATM	Pressure in atmospheres	atm.
r	RCM	Burning rate in centimeters	cm.
T	TS	Surface temperature in degrees K	o _K

```
TIME =
          0.0
                           DEF =
                                       7.6999998
          0.0008
TIME =
                            DEF .=
                                       7.0599997
TIME
          0.0059
                           DEF =
                                       4.7993992
TIME
          0.0103
                                       3.5999994
          0.0153
                           DEF =
                                       2.7500000
TIME
          0.0208
                           DEF =
                                       2.1999998
TIME
          0.0258
                           DFF =
                                       1.7999992
TIME =
          0.0308
                                       1.5499992
TIME
          0.0408
                           DEF =
                                       1.1999993
TIME
          O. 05 CB
                           DEF =
                                       0.9500000
TIME
          0.0508
                                       0.7300000
TIME
          0.0708
                           DEF =
                                       0.6500000
TIME
          0.0303
                           DEF =
                                       0.5900000
TIME =
          0.1003
                           ner =
                                       0.5000000
   -0.74953004570-02
                             >(-.007485300457)
                           ⇒(-.5661266774)
   -0.56612567740 00
    0.10093530530 00
                              Coefficients in polynomial
  -0.21373541910-01
                              Curve fit expression.
   0.35661328439-02
                                (double precision)
  -0.35439273700-03
   0.17969387350-04
  -0.35572511680-06
```

GRANULAR DIFFUSION MODFL USING AFIGHTED STEP-IMPULSF, INTEGRATION OF THE DAS PHISE.

COST CITATION ACCOUNTS AND ACCOUNTS

Eddings of Branchish

RESIDENCE CONTRACTOR PROGRAMMENT PROGRAMMENT PROGRAMMENT

\$09°0 # H		PATSSURE VS. TIME DATA FROM RUN # 183	NO. OF DATA POINTS USED = 14	
	HI = 2.5149	1.9113		
	ï	B = 1.920 HS = 1.9113		NATE.
	0.077	1.920		THE SPACE COURDINATE.
	A = 0.077	œ.		F SPAC
	F-ACT (5J2F) = 16300.			214 POTATS AFRE USED IN TH
				<b>≱</b> F
	(5,7%)	770.		VTS
	F-ACT	PO = 770.		214 PC

RATE CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALVET CALV	0.333 0.333 0.235 0.255 0.255 0.255 0.255 0.255 0.255
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	0.0018 0.0020 0.0020 0.0022 0.0022 0.0023 0.0023 0.0024 0.0024 0.0026 0.0026 0.0026 0.0026
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Coefficients in polynomial curve fit expression.

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  -9.2555935940D-01
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GRANULAR DIFFISION MODEL USING WEIGHTED STEP-IMPULSE INTEGRATION OF THE GAS PHASE.

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TEMP	DEGK	831.0	811.6	788.7	755.4	742.3	720.4	4.007	682.5	655.7	651.0	637.7	6529
SURNI'NS RATE	CM/SEC	0.136	0.108	0.081	0.000	0.043	0.031	0.023	0.017	0.012	0.010	0.037	900 0
AT M		5.59	5.15	4.14	4.37	4.02	3.71	3.43	3.19	2.97	2.78	2.63	2.51
9 EAL TIME		0.017,35	0.017860	0.018593	0.019334	0.023083	0.020939	0.021603	0.022373	0.023150	0.023932	n.024721	0.025515
۲ ۸ ۲ ۲	) TH(161)	0.0720	0.0024	0.0028	0.1033	0.0039	0.0046	0.0054	0.0763	0.0072	0.0083	0.0094	0.0107
E IN GVENLY EMENTS	TH(121)	9.3133	0.0150	0.010.0	0.0193	0.7217	9.3244	0.0273	0.0303	0.0335	0.0368	0.0402	0.0436
E PROFIL CED INGR	TH (BL)	0.0701	0.0758	0.0823	0.0885	0.0952	0.1020	0.1039	0.1153	0.1217	0.1276	0.1332	0.1384
TEMPFRATJRE PROFILE I Spaced increme	TH(41)	3.2771	3.2855	0.2935	0.3008	0.3058	0.3115	0.3148	0.3167	0.3175	5,3173	0.3162	0.3144
#	TH(1)	0,7259	5665°C	1894.0	0.6363	3.6047	0.5748	9.5474	0.5229	0.5000	9674°C	0.4617	0.4455
TC H2		3.04	4.07	5.79	8.15	11.59	16.37	22.65	30.39	43.32	56.71	75.40	93.76
TOIF2					3.99								
R /REO		0.394	0.324	0.253	0.193	0.144	0.108	0.082	0.063	0.048	0.038	0.030	0.024
TEMP		0.2002	0.1654	0.1285	0.0984	0.0732	0.0539	0.0399	0.0302	0.0213	0.0163	0.0123	0.0099
FLAME		1.5326	1.4541	1.3615	1.2837	1.2083	1.1410	1.0830	1.0352	0.9777	0.6360	0.8993	0.8704
BJRNING RATE		0.1540	0.1222	0.0919	0.0675	0.0487	0.0351	0.0256	0.10.0	0.0141	0.0103	0.0083	9900*0
PRESSURE		0.0821	0.0757	1690.0	0.0647	0.0592	0.0546	0.0505	0.0468	96 90 0	0.0409	0.0386	0.0369
TIVE		5.937	7.230	7.527	7.827	8.130	9.437	8.746	9.058	9.372	9.683	10.008	10.329

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complete descriptions of the computer programs referred to in AMS 880.				
The data from 330 extinguishment tests include the measured pressure				
versus time histories (in tabular and graphical form), propellant				
designations and extinguishment parameters. Listings, descriptions				
and sample cases are included for two computer programs: 12 Pro-				

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gram to Calculate Constants in the Characteristic Time Equations for Chemical and Diffusional Processes and 2) Program to Predict Extinguishment and to Calculate Dynamic Burning Properties from Pressure versus Time Data Input.

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